ADDENDUM LIST

Ref. No.	Part Name & Descriptions	Part No.		
		U.S.A. and Canada	Asia	
⊙ 1	POWER UNIT	KU9153N	KU9153D	
⊙ 2	P.S. UNIT	KU9162	KU9162D	
12	4P TERMINAL	–	2050273005	
15	PROTECTOR SHEET	–	4159014105	
20	BLIND SHEET	–	–	
⊙ ★21	D.I. WIRE	–	–	
22	BACK PANEL	1059129012	1059129025	
⊙ 23	PS COVER	4159045006	–	
31	AC CORD (POLARIZED)	2062060002	–	
	AC CORD	–	2006031026	
32	CORD BUSH	–	4450028007	
	CORD BUSH (4k-4)	4450020005	–	
⚠ 42	**POWER TRANS**	**2339572003**	**2339576009**	
⊙ 62	RADIATOR	– –	–	
⚠ 80	**VOLTAGE SEL. SWITCH**	**–**	**2129555007**	
★81	FUSE HOLDER	–	2020013101	
★82	FUSE 6.3A (T)	–	2061035038	
⊙ ★83	FUSE LABEL (T6.3A)	–	5130654091	
85	1P TERMINAL (RED)	2050438015(2)	–	
86	1P TERMINAL (BLACK)	2050438002(2)	–	
87	DANGEROUS MARK	5138266009	–	
88	PROTECTOR	1469124005	–	
⊙ ★89	FUSE LABEL	5139182030	–	
★90	PUSH RIVET	4770096007(2)	–	
101	TAPTIGHT SCREW(S) 3x6 BLACK	4737002034(23)	4737002034(23)	
102	TAPTIGHT SCREW(P) 3x8 BLACK	4737500044(2)	4737500044(4)	
113	CUP SCREW 3x8	–	–	
120	ϕ5 SPRING WASHER	4752005003(4)	–	
★204	CARTON CASE	5019157091	5019157059	
★208	3P CANNON PLUG CORD	–	–	
★209	CUSHION-B	5039186000	–	
★210	DAT WARRANTY HOME	5150418107	–	

Note 1. See addendum list above for the parts with asterisk (*) on the Ref. No. and the other parts not included in the list.
2. ★ marked not included EXPLODED VIEW OF CHASSIS AND CABINET.
3. This list is prepared based on EUROPE BLACK VERSION.

DENON

Hi-Fi Monaural Power Amplifier

SERVICE MANUAL

MODEL POA-6600A

SOLID STATE
MONAURAL POWER AMPLIFIER

DENON
POA-6600A

NOTE: This Service Manual is prepared based on Europe Black Version.

CONTENTS

OPERATING INSTRUCTIONS .... 2~9
REMOVAL OF EACH SECTION 10
METHOD OF ADJUSTMENTS 11
TROUBLESHOOTING 12
BLOCK DIAGRAM 13
SEMICONDUCTORS 13
PRINTED WIRING BOARD
  KU9153 POWER UNIT 14
  KU9154 P.S. UNIT 15
PRINTED WIRING BOARD PARTS LIST .... 16~19
WIRING DIAGRAM 20
SCHEMATIC DIAGRAM 21
EXPLODED VIEW OF CHASSIS AND CABINET & PARTS LIST 22
ADDENDUM LIST 23

NIPPON COLUMBIA CO., LTD.

CAUTION

RISK OF ELECTRIC SHOCK

DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instruction in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD,
DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

For United Kingdom model only.

WARNING:

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

For U.S.A. and Canada models

CAUTION

TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

Pour les modèles destimés au Canada

ATTENTION

POUR PREVENIR LES CHOCS ELECTRIQUES,NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR,UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

"SERIAL NO. ____________________
PLEASE RECORD UNIT SERIAL NUMBER ATTACHED TO THE REAR OF THE CABINET FOR FUTURE REFERENCE"

SAFETY INSTRUCTIONS

1. Read Instructions – All the safety and operating instructions should be read before the appliance is operated.
2. Retain Instructions – The safety and operating instructions should be retained for future reference.
3. Heed Warnings – All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow Instructions – All operating and use instructions should be followed.
5. Water and Moisture – The appliance should not be used near water – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like.
6. Carts and Stands – The appliance should be used only with a cart or stand that is recommended by the manufacturer.

6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

7. Wall or Ceiling Mounting – The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. Ventilation – The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
9. Heat – The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
10. Power Sources – The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
11. Grounding or Polarization – The precautions that should be taken so that the grounding or polarization means of an appliance is not defeated.
12. Power-Cord Protection – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
13. Protective Attachment Plug – The appliance is equipped with an attachment plug having overload protection. This is a safety feature. See Instruction Manual for replacement or resetting of protective device. If replacement of the plug is required, be sure the service technician has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug.
14. Cleaning – The appliance should be cleaned only as recommended by the manufacturer.
15. Power Lines – An outdoor antenna should be located away from power lines.
16. Outdoor Antenna Grounding – If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.
17. Nonuse periods – The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
18. Object and Liquid Entry – Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
19. Damage Requiring Service – The appliance should be serviced by qualified service personnel when:
    A. The power-supply cord or the plug has been damaged; or
    B. Objects have fallen, or liquid has been spilled into th appliance; or
    C. The appliance has been exposed to rain; or
    D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
    E. The appliance has been dropped, or the enclosure damaged.
20. Servicing – The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

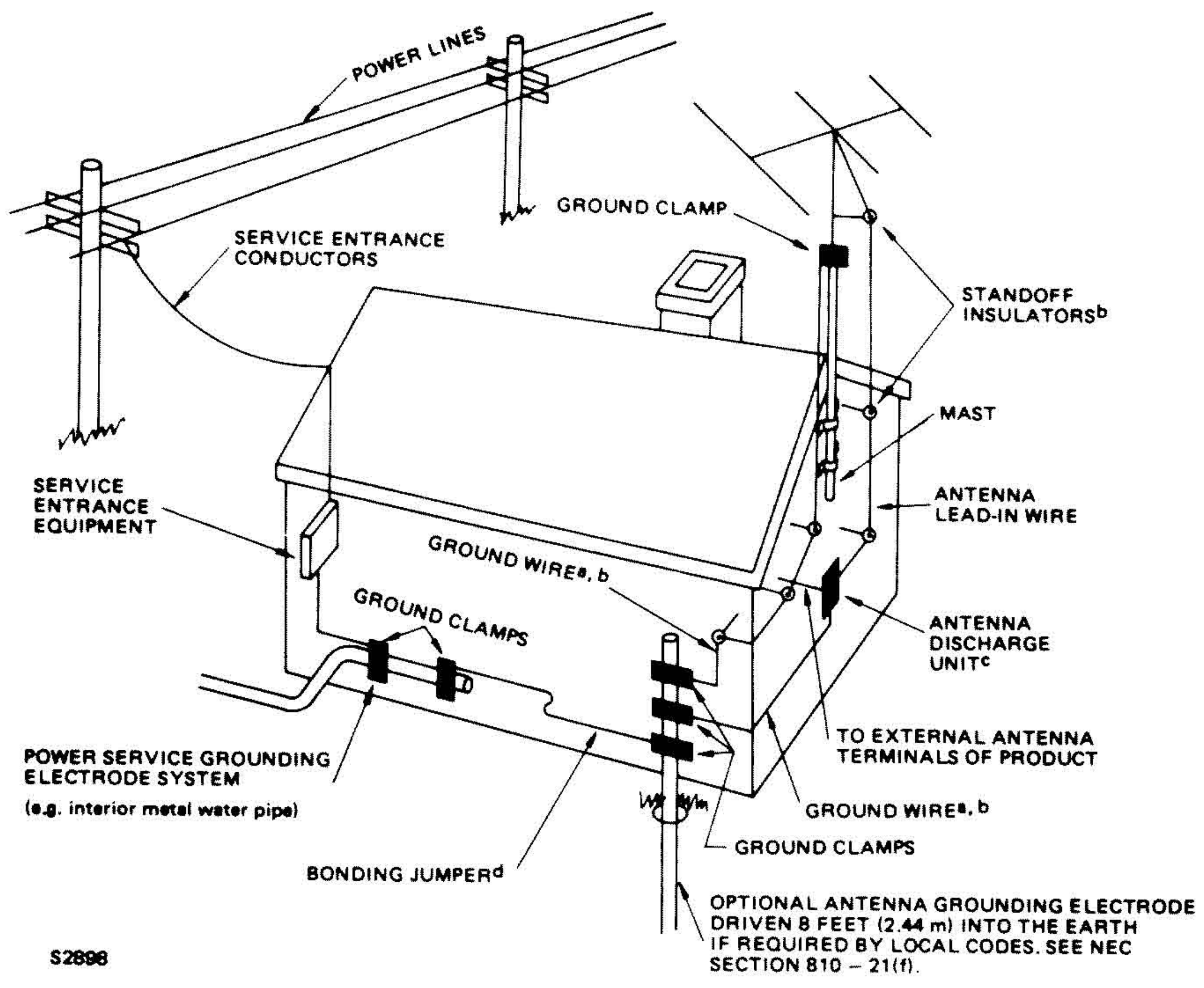


FIGURE A

EXAMPLE OF ANTENNA GROUNDING ACCORDING TO NATIONAL ELECTRICAL CODE INSTRUCTIONS CONTAINED IN ARTICLE 810 – "RADIO AND TELEVISION EQUIPMENT"

POWER LINES
GROUND CLAMP
SERVICE ENTRANCE CONDUCTORS
STANDOFF INSULATORS^b
MAST
SERVICE ENTRANCE EQUIPMENT
ANTENNA LEAD-IN WIRE
GROUND WIRE^a, b
GROUND CLAMPS
ANTENNA DISCHARGE UNIT^c
TO EXTERNAL ANTENNA TERMINALS OF PRODUCT
POWER SERVICE GROUNDING ELECTRODE SYSTEM
(e.g. interior metal water pipe)
GROUND WIRE^a, b
GROUND CLAMPS
BONDING JUMPER^d
OPTIONAL ANTENNA GROUNDING ELECTRODE DRIVEN 8 FEET (2.44 m) INTO THE EARTH IF REQUIRED BY LOCAL CODES. SEE NEC SECTION 810 – 21(f).
S2898

[a] Use No. 10 AWG (5.3 mm^2) copper, No. 8 AWG (8.4 mm^2) aluminum, No. 17 AWG (1.0 mm^2) copper-clad steel or bronze wire, or larger, as a ground wire.

[b] Secure antenna lead-in and ground wires to house with stand-off insulators spaced from 4–6 feet (1.22–1.83 m) apart.

[c] Mount antenna discharge unit as close as possible to where lead-in enters house.

[d] Use jumper wire not smaller than No. 6 AWG (13.3 mm^2) copper, or the equivalent, when a separate antenna-grounding electrode is used. See NEC Section 810-21(j).

Die Deutsche Bundespost informiert

Sehr geehrter Rundfunkteilnehmer,

Dieses Gerät ist von der Deutschen Bundespost als Ton- bzw. Fernseh-Rundfunkempfänger zugelassen. Es entspricht den zur Zeit geltenden Technischen Vorschriften der Deutschen Bundespost und ist zum Nachweis dafür mit der DBP-Prüfnummer..... gekennzeichnet. Bitte überzeugen Sie sich selbst.

Dieses Gerät darf im Rahmen der nachstehend abgedruckten »Allgemeinen Genehmigung für Ton- und Fernseh-Rundfunkempfänger« in der Bundesrepublik Deutschland betrieben werden. Beachten Sie aber bitte, daß aufgrund dieser Allgemeinen Genehmigung nur Sendungen des Rundfunks empfangen werden dürfen. *) Wer unbefugt andere Sendungen (z.B. des Polizeifunks, des Seefunks, der öffentlichen beweglichen Landfunkdienste) empfängt, verstößt gegen die Genehmigungsauflagen und macht sich daher nach § 15 Absatz 2a des Gesetzes über Fernmeldeanlagen strafbar.

Die Kennzeichnung mit der DBP-Prüfnummer bietet Ihnen die Gewähr, daß dieses Gerät keine anderen Fernmeldeanlagen einschließlich Funkanlagen stört. Die Zusatzbuchstaben S, SE oder SK bei der DBP-Prüfnummer besagen außerdem, daß das Gerät gegen störende Beeinflussungen durch andere Funkanlagen (z.B. des Amateurfunks, des CB-Funks) weitgehend unempfindlich ist. Sollten ausnahmsweise trotzdem Störungen auftreten, so wenden Sie sich bitte an die örtlich zuständige Funkstörungsmeßstelle.

Allgemeine Genehmigung für Ton- und Fernseh-Rundfunkempfänger

Die Allgemeine Ton- und Fernseh-Rundfunkgenehmigung vom 11.12.1970 (veröffentlicht im Bundesanzeiger Nr. 234 vom 16.12.1970) wird unter Bezug auf Abschnitt III der Genehmigung durch folgende Fassung der Allgemeinen Genehmigung für Ton- und Fernseh-Rundfunkempfänger gemäß den §§ 1 und 2 des Gesetzes über Fernmeldeanlagen ersetzt.

Genehmigung für Ton- und Fernseh-Rundfunkempfänger

I

1. Die Errichtung und der Betrieb von Ton- und Fernseh-Rundfunkempfängern werden nach §§ 1 und 2 des Gesetzes über Fernmeldeanlagen in der Fassung der Bekanntmachung vom 17.3.1977 (BGBl. I, S. 459) allgemein genehmigt.
2. Ton- und Fernseh-Rundfunkempfänger im Sinne dieser Genehmigung sind Funkanlagen gemäß § 1 Abs. 1 des Gesetzes über Fernmeldeanlagen, die ausschließlich die für Rundfunkempfänger zugelassenen Frequenzabstimmbereiche**) aufweisen und zum Aufnehmen und gleichzeitigen Hör- oder Sichtbarmachen von Ton- oder Fernseh-Rundfunksendungen bestimmt sind. Zum Empfänger gehören auch eingebaute oder mit ihm fest verbundene Antennen sowie bei Unterteilung in mehrere Geräte die funktionsmäßig zugehörenden Geräte.
   Außer für den Empfang von Rundfunksendungen dürfen Ton- und Fernseh-Rundfunkempfänger nur mit besonderer Genehmigung der Deutschen Bundespost für andere Fernmeldezwecke zusätzlich benutzt werden.
   In den Empfänger eingebaute oder sonst mit ihm verbundene Zusatzgeräte (z.B. Ultraschallfernmeldeanlagen, Infrarotfernmeldeanlagen) werden von dieser Genehmigung nicht erfaßt (ausgenommen die Einrichtungen zum Empfang des Verkehrsrundfunks). Desgleichen sind andere technische Empfängereigenschaften, die über den eigentlichen Zweck eines Rundfunkempfängers hinausgehen (z.B. zum Empfang anderer Funkdienste, für die Wiedergabe im Rahmen von Textübertragungsverfahren) hierdurch nicht genehmigt. Hierfür gelten besondere Regelungen.

II

Diese Genehmigung wird unter nachstehenden Auflagen erteilt:

1. Ton- und Fernseh-Rundfunkempfänger müssen den jeweils geltenden Technischen Vorschriften für Ton- und Fernseh-Rundfunkempfänger entsprechen. Eingebaute Zusatzgeräte müssen den für sie geltenden Bestimmungen und technischen Vorschriften genügen.
   Änderungen der Technischen Vorschriften, die im Amtsblatt des Bundesministers für das Post- und Fernmeldewesen veröffentlicht werden, muß bei schon errichteten und in Betrieb genommenen Ton- und Fernseh-Rundfunkempfängern nachgekommen werden, wenn durch den Betrieb dieser Rundfunkempfänger andere elektrische Anlagen gestört werden.
   Serienmäßig hergestellte Ton- und Fernseh-Rundfunkempfänger müssen zum Nachweis dafür, daß sie den Technischen Vorschriften entsprechen, mit einer DBP-Prüfnummer gekennzeichnet sein.***) Die DBP-Prüfnummer sagt über die elektrische und mechanische Sicherheit und die Einhaltung der Strahlenschutzbestimmungen nichts aus.
2. Ton- und Fernseh-Rundfunkempfänger dürfen an ortsfesten oder nichtortsfesten Rundfunk-Empfangsantennenanlagen, -Verteilanlagen oder Kabelfernsehanlagen betrieben und im Rahmen der Bestimmungen über private Drahtfernmeldeanlagen mit Drahtfernmeldeanlagen verbunden werden.
   Auf demselben Grundstück oder innerhalb eines Fahrzeuges dürfen Ton- und Fernseh-Rundfunkempfänger mit anderen Geräten oder sonstigen Gegenständen (z.B. Plattenspieler, Magnetaufzeichnungs- und -Wiedergabegeräte, Antennen) verbunden werden, sofern diese Geräte von der Deutschen Bundespost genehmigt sind oder keiner Genehmigung bedürfen.
   Die räumliche Kombination von Funkanlagen mit Ton- oder Fernseh-Rundfunkempfängern ist nur dann zulässig, wenn die betreffenden Funkanlagen je für sich genehmigt sind.
3. Mit Ton- oder Fernseh-Rundfunkempfängern dürfen aufgrund dieser Genehmigung nur Sendungen des Rundfunks empfangen werden, also übertragene Tonsignale (Musik, Sprache) und Fernsehsignale (nur Bildinformationen). Andere Sendungen (z.B. des Polizeifunks, der öffentlichen beweglichen Landfunkdienste, Datenübertragungen) dürfen nicht aufgenommen werden, werden sie jedoch unbeabsichtigt empfangen, so dürfen sie weder aufgezeichnet, noch anderen mitgeteilt, noch für irgendwelche Zwecke ausgewertet werden. Das Vorhandensein solcher Sendungen darf auch nicht anderen zur Kenntnis gebracht werden.
4. Durch Ton- oder Fernseh-Rundfunkempfänger darf der Betrieb anderer elektrischer Anlagen nicht gestört werden.
5. Änderungen der Ton- oder Fernseh-Rundfunkempfänger, die die zulässigen Frequenzabstimmbereiche der Empfänger erweitern, gehen über den Umfang dieser Genehmigung hinaus und bedürfen vor ihrer Ausführung einer besonderen Genehmigung der Deutschen Bundespost.
   Wer aufgrund dieser Genehmigung einen Ton- oder Fernseh-Rundfunkempfänger betreibt, hat bei einer Änderung der kennzeichnenden Merkmale von Ton- oder Fernseh-Rundfunksendern (insbesondere bei Änderung des Sendeverfahrens oder bei Frequenzwechsel) die ggf. notwendig werdenden Änderungen an den Rundfunkempfängern auf seine Kosten vornehmen zu lassen.
6. Die Deutsche Bundespost ist berechtigt, Rundfunkempfänger und mit ihnen verbundene Geräte darauf zu prüfen, ob die Auflagen der Genehmigung und die Technischen Vorschriften eingehalten werden.
   Den Beauftragten der Deutschen Bundespost ist das Betreten der Grundstücke oder Räume, in denen sich Ton- oder Fernseh-Rundfunkempfänger befinden, zu den verkehrsüblichen Zeiten zu gestatten. Befinden sich die Rundfunkempfänger oder mit ihnen verbundene Geräte nicht im Verfügungsbereich desjenigen, der die Empfänger betreibt, so hat er den Beauftragten der Deutschen Bundespost Zutritt zu diesen Teilen zu ermöglichen.

III

Bei Funkstörungen, die nicht durch Mängel der Rundfunkempfänger oder der mit ihnen verbundenen Geräte verursacht werden, können die Funkmeßdienste der Deutschen Bundespost zur Feststellung der Störung in Anspruch genommen werden.

IV

1. Diese Genehmigung kann allgemein oder durch die örtlich zuständige Oberpostdirektion einem einzelnen Betreiber gegenüber für einen bestimmten Rundfunkempfänger widerrufen werden. Ein Widerruf ist insbesondere zulässig, wenn die unter Abschnitt II aufgeführten Auflagen nicht erfüllt werden.
   Anstatt die Genehmigung zu widerrufen, kann die Deutsche Bundespost anordnen, daß bei einem Verstoß gegen eine Auflage ein Ton- oder Fernseh-Rundfunkempfänger außer Betrieb zu setzen ist und erst bei Einhaltung der Auflagen wieder betrieben werden darf.
   Die Auflagen dieser Genehmigung können jederzeit ergänzt oder geändert werden.
2. Diese Genehmigung ersetzt die Allgemeine Ton- und Fernseh-Rundfunkgenehmigung vom 11.12.1970; sie gilt ab 1.7.1979.

Bonn, den 14.5.1979

Der Bundesminister
für das Post- und Fernmeldewesen
Im Auftrag
Haist

---

*) Zum Empfang anderer Sendungen darf dieses Gerät nur mit Genehmigung der Deutschen Bundespost benutzt werden. Allgemein genehmigt ist zur Zeit der Empfang der Aussendungen von Amateurfunkstellen und der Normalfrequenz- und Zeitzeichensendungen.

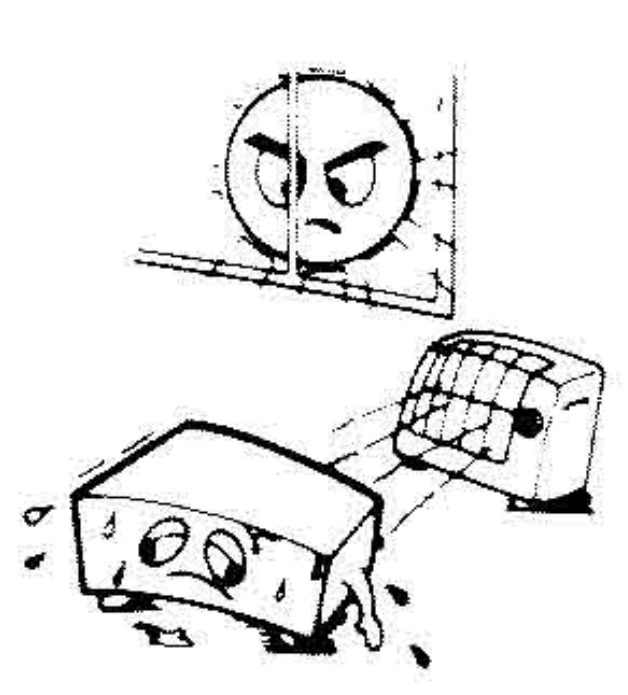
**) Siehe Technische Vorschriften für Ton- und Fernseh-Rundfunkempfänger, veröffentlicht im Amtsblatt des Bundesministers für das Post- und Fernmeldewesen.

***) Für ausnahmsweise noch nicht gekennzeichnete, vor dem 1.7.1979 errichtete und in Betrieb genommene Ton-Rundfunkempfänger wird die Kennzeichnung nicht verlangt.

Please read the instructions before using. Following the instructions and operating hints will ensure top performance for many years.

Keep the Operating Instructions in a secure place.

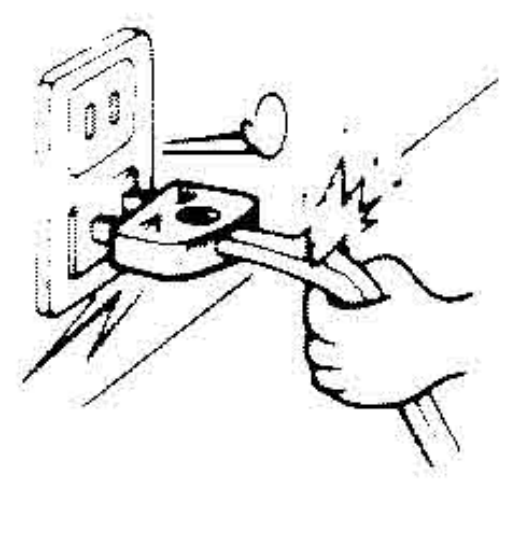
NOTE ON USE



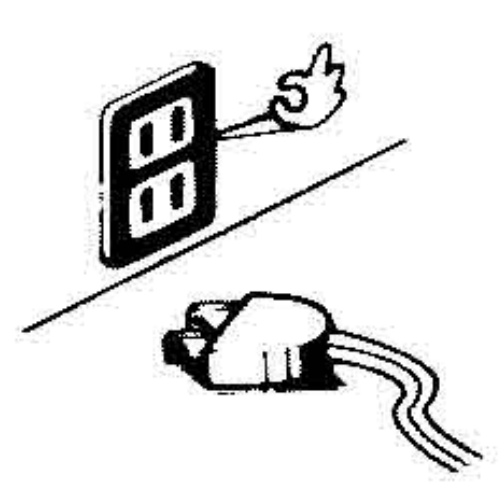
Be careful of high temperatures.
- Do not place he amplifier where it will be exposed to direct sunlight or close to heating devices.

Installation in a cabinet
- Avoid installing the amplifier in a sealed, airtight cabinet.
- If a cabinet is to be used, make certain that the amp is placed in a well-ventilated section. If necessary, cut out sufficient space in the cabinet walls to allow heat to escape.

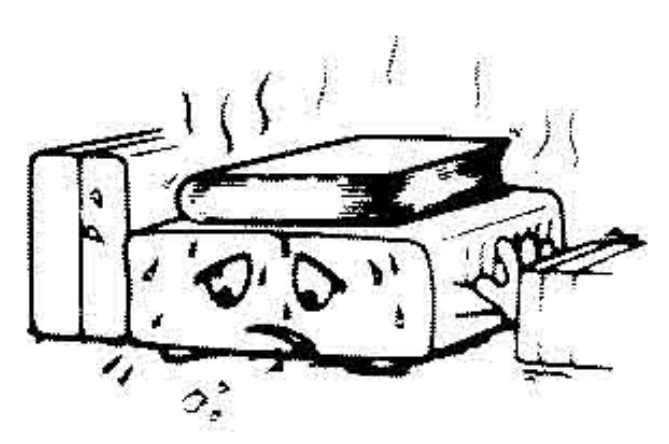
Humidity, water and dust must be prohibited.
- Do not place the amplifier in dusty areas or those subject to high humidity. Do not place vases or other containers filled with water on top of the equipment.



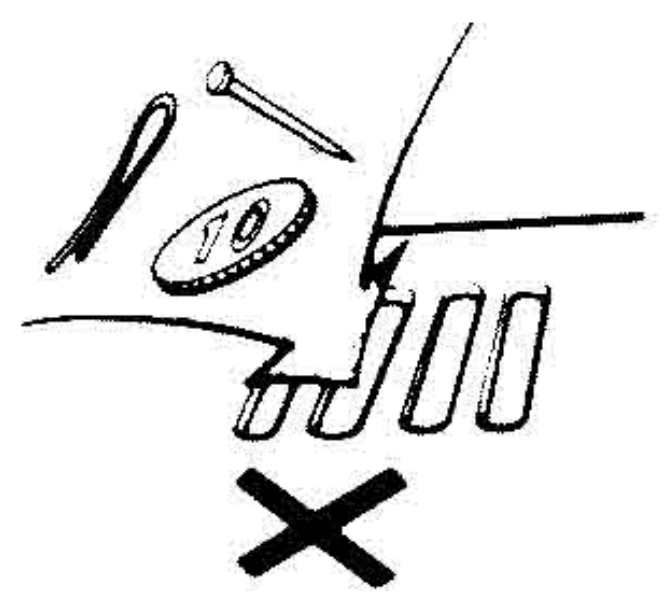
Be careful with the power supply core.
- Do not pull out the plug by yanking on the power supply cord. Always take the plug in hand pull it out.



During your absence
- If no one will be in the room for a long period and the amplifier is not being used, make certain to pull out the plug from the wall socket.



Do not place objects on top of the ventilation holes.
- Placing objects on top of the ventilation holes will result in malfunction.
- The ventilation holes are extremely important in allowing heat to escape from the amplifier. If they are covered up, the internal temperature of the amplifier will rise abnormally. Be careful to avoid this.



Do not allow foreign matter to get inside the equipment.
- Do not allow needles, hairpins, coins, etc. to slip inside the amplifier.

Handling the cabinet
- The quality and color of the cabinet will be affected if it is exposed to insect repellent or solvents such as benzene or paint thinners. Do not use these on the cabinet. To remove dirt, use a soft cloth. Use caution with chemically treated cloth.

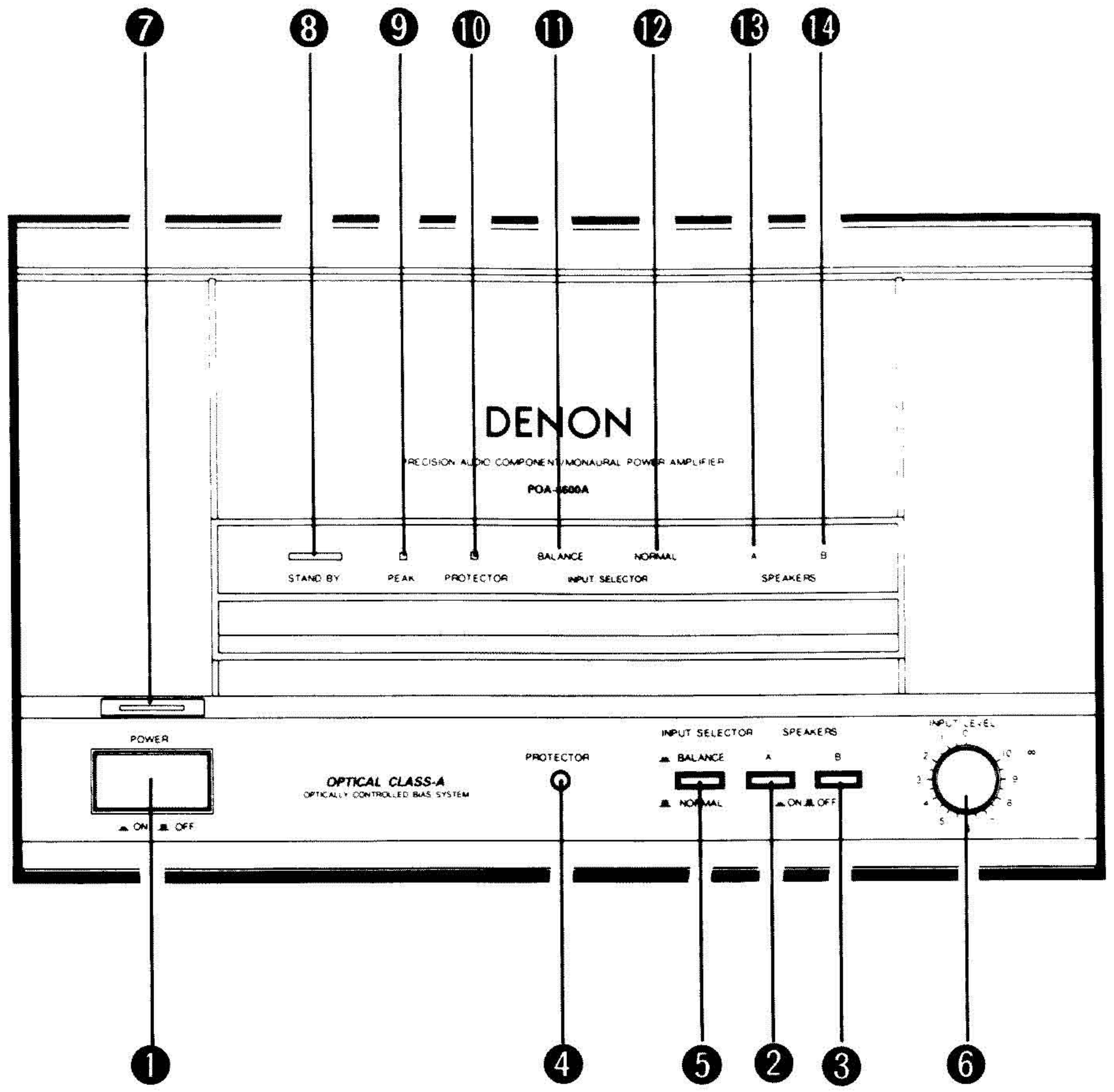
Do not open the cabinet.
- It is extremely dangerous to open the cabinet or its bottom lid and reach inside. Do not open the amplifier. If a problem occurs with the equipment, unplug the power supply cord at once, and contact the store where you purchased the amplifier.

SPECIFICATIONS

Rated output power:	260 W min., RMS into 8 ohms from 20 Hz to 20 kHz with no more than 0.02% total harmonic distortion 450 W (4 ohm, DIN 1 kHz)
Dynamic power:	650 W (at 4 ohm) 1100 W (at 1 ohm)
Total harmonic distortion:	Less than 0.002% (–3 dB at rated output, 8 ohm)
Intermodulation distortion:	Less than 0.002% (60 Hz/7 kHz: 4/1 at rated output, 8 ohms)
Power band width:	5 Hz – 80 kHz (8 ohms, THD 0.02%)
Frequency response:	1 Hz – 300 kHz + 0, –3 dB (at 1 W)
Input sensitivity:	1 V (Normal in) 1 V (Balance in)
Input impedance:	25 k ohms (Normal in) 10 k ohms (Balance in)
Output impedance:	0.1 ohm (1 kHz)
S/N ratio:	123 dB (IHF, A-weighting) (Normal)
Output terminals:	Speakers A or B 4 ohm ~ 16 ohm A + B 8 ohm ~ 16 ohm
Power supply:	AC 220 V/50 Hz (for European countries) AC 240 V/50 Hz (for U.K. and Australia) AC 120 V/60 Hz (for U.S.A. and Canada) AC 110/120/220/240 V/50, 60 Hz [for Asia (Multiple)]
Power consumption:	7 A (for U.S.A. and Canada) 350 W (for IEC) 275 W (for Multiple)
Dimensions:	310 (W) x 207 (H) x 456 (D) mm (Including control knobs and feet)
Weight:	15.6 kg

* Design and specifications are subject to change without prior notice.

NAMES AND FUNCTIONS OF PARTS


⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭
DENON
PRECISION AUDIO COMPONENT / MONAURAL POWER AMPLIFIER
POA-6600A
STAND BY
PEAK
PROTECTOR
BALANCE
NORMAL
INPUT SELECTOR
A
B
SPEAKERS
POWER
ON OFF
OPTICAL CLASS-A
OPTICALLY CONTROLLED BIAS SYSTEM
PROTECTOR
INPUT SELECTOR
SPEAKERS
BALANCE
NORMAL
A
B
ON OFF
INPUT LEVEL
①
④
⑤
②
③
⑥

① **POWER (Power switch)**
Pressing this switch turns on the power, and causes indicators⑦and ⑪ or ⑫ to light up. The protector lamp ⑩ also flashes for several seconds until the power amp has stabilized, then goes off. Pressing this switch again turns the power off.

② **SPEAKERS-A:**
When this switch is pressed, the speaker system connected to the SPEAKERS-A terminal is operated, and indicator ⑬ for A lights.

③ **SPEAKERS-B:**
When this switch is pressed, the speaker system connected to the SPEAKERS-B terminal is operated, and indicator ⑭ for B lights.

④ **PROTECTOR**
The amplifier has a built-in speaker impedance protection circuit. Press this switch to cancel operation of the built-in speaker impedance protective circuit when it is operating. The button is a non-locking switch, and returns to its original position without being locked when pressed.
* When this switch is pressed, this indicator lamp ⑩ blinks for a few seconds and then the speaker relay goes "ON".

⑤ **INPUT SELECTOR**
This switch selects between Balance Input (CANNON XL-3-31) and Normal (RCA Pin Jack). Lamp ⑪ or ⑫ lights up to indicate the Balance – Normal selection.

⑥ **INPUT LEVEL**
Adjust the input level with this knob.

⑧ **STAND BY**
The set will not operate when this indicator is "on".
(1) When one end of a remote plug cord is inserted in the DC input on the back panel and the other end is open (not connected)
(2) When one end of a remote plug cord is connected to the power amp and the other end is connected to the preamp (such as DAP-5500), and the preamp's power switch is "off".
Note: If the preamp power switch is turned "on" under the above conditions, after the STAND BY indicator ⑧ has gone off, the PROTECTOR lamp will blink for a few seconds until the amp has stabilized, then the unit will be in the normal state.

⑨ **PEAK**
In order to enjoy high qualiy amplification of the program source with minimum distortion, operate the unit so as to keep the volume within a range where the PEAK indicator does not light up.

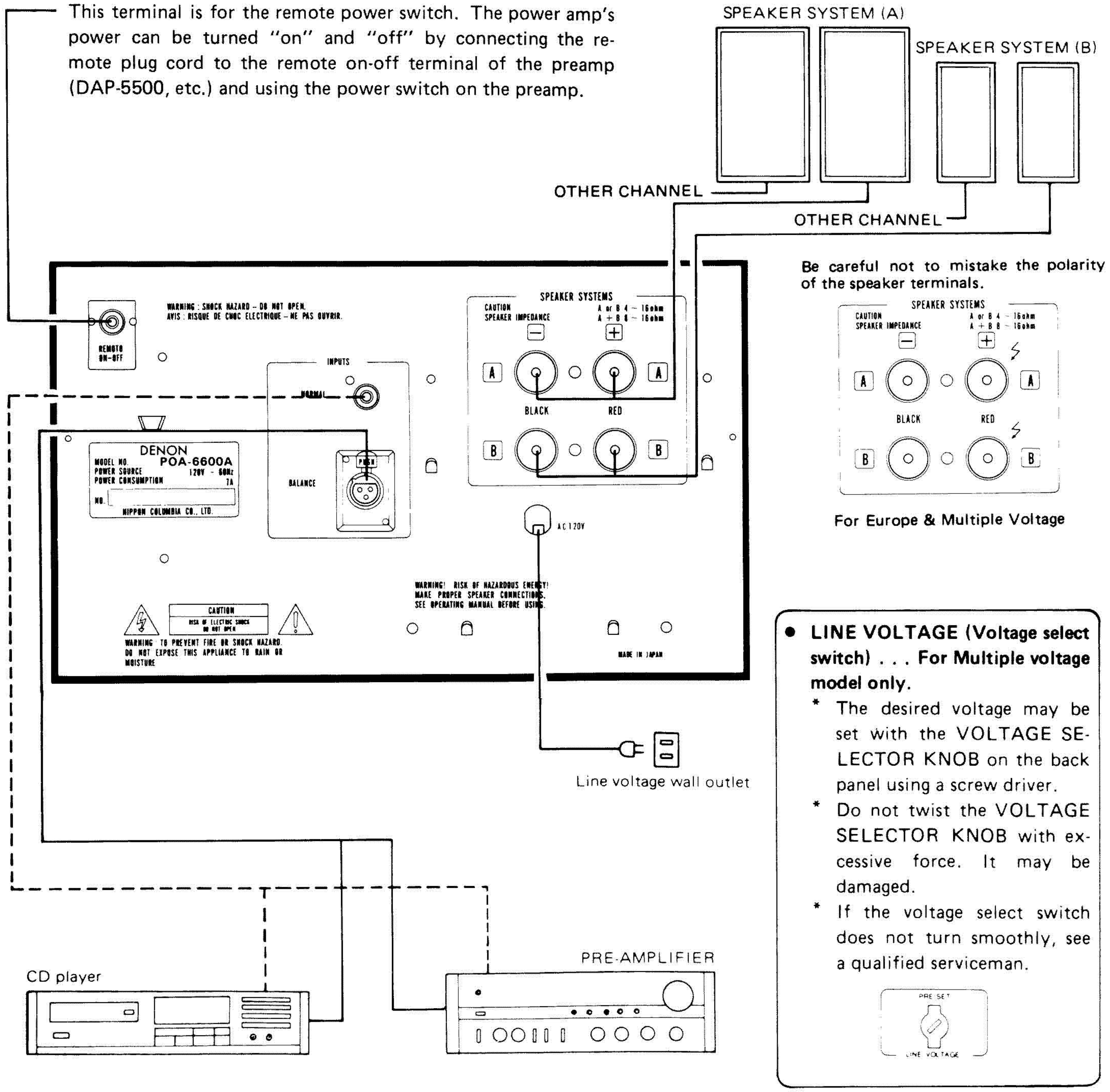
⑩ **PROTECTOR**
Various protector circuits are included in this unit. This indicator blinks when these circuits are operating.
(1) Muting time, which lasts for several seconds after the power is turned "on".
(2) When the offset voltage of the power amp has drifted outside the prescribed range.
(3) When the temperature of the power amp is abnormally high.
(4) When a speaker terminal is shorted or a speaker's impedance is extremely low.

CONNECTIONS

- **Notes on Connection**
  - Do not plug the power supply cord into the wall socket, until all the connections are complete.
  - Plug the pins in securely. An incomplete connection will cause noise generation.
  - Binding the pin plug to the power supply cord, or setting the pin cord close to the power supply transformer will cause humming or noise, and should be avoided.

- **Connection to the speaker system**

  Connect the speaker system for the left channel (the left side as viewed facing the front) to the L speaker terminal on the back panel, and the speaker system for the right channel into the R terminal. There are two sets of SPEAKERS terminals. If only one speaker system is to be used, connect it to the SYSTEM (A) terminals.


SPEAKER SYSTEM (A)
SPEAKER SYSTEM (B)
OTHER CHANNEL
OTHER CHANNEL
WARNING : SHOCK HAZARD – DO NOT OPEN.
AVIS : RISQUE DE CHOC ELECTRIQUE – NE PAS OUVRIR.
REMOTO ON-OFF
INPUTS
NORMAL
BALANCE
PUSH
DENON
MODEL NO. POA-6600A
POWER SOURCE 120V ~ 60Hz
POWER CONSUMPTION 7A
NO.
NIPPON COLUMBIA CO., LTD.
SPEAKER SYSTEMS
CAUTION SPEAKER IMPEDANCE
A or B 4 ~ 16ohm
A + B 8 ~ 16ohm
A
B
BLACK
RED
AC 120V
WARNING! RISK OF HAZARDOUS ENERGY! MAKE PROPER SPEAKER CONNECTIONS. SEE OPERATING MANUAL BEFORE USING.
CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN
WARNING : TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE
MADE IN JAPAN
Line voltage wall outlet
CD player
PRE-AMPLIFIER

This terminal is for the remote power switch. The power amp's power can be turned "on" and "off" by connecting the remote plug cord to the remote on-off terminal of the preamp (DAP-5500, etc.) and using the power switch on the preamp.

Be careful not to mistake the polarity of the speaker terminals.

For Europe & Multiple Voltage

- **LINE VOLTAGE (Voltage select switch) . . . For Multiple voltage model only.**
  - * The desired voltage may be set with the VOLTAGE SELECTOR KNOB on the back panel using a screw driver.
  - * Do not twist the VOLTAGE SELECTOR KNOB with excessive force. It may be damaged.
  - * If the voltage select switch does not turn smoothly, see a qualified serviceman.

PRE SET
LINE VOLTAGE

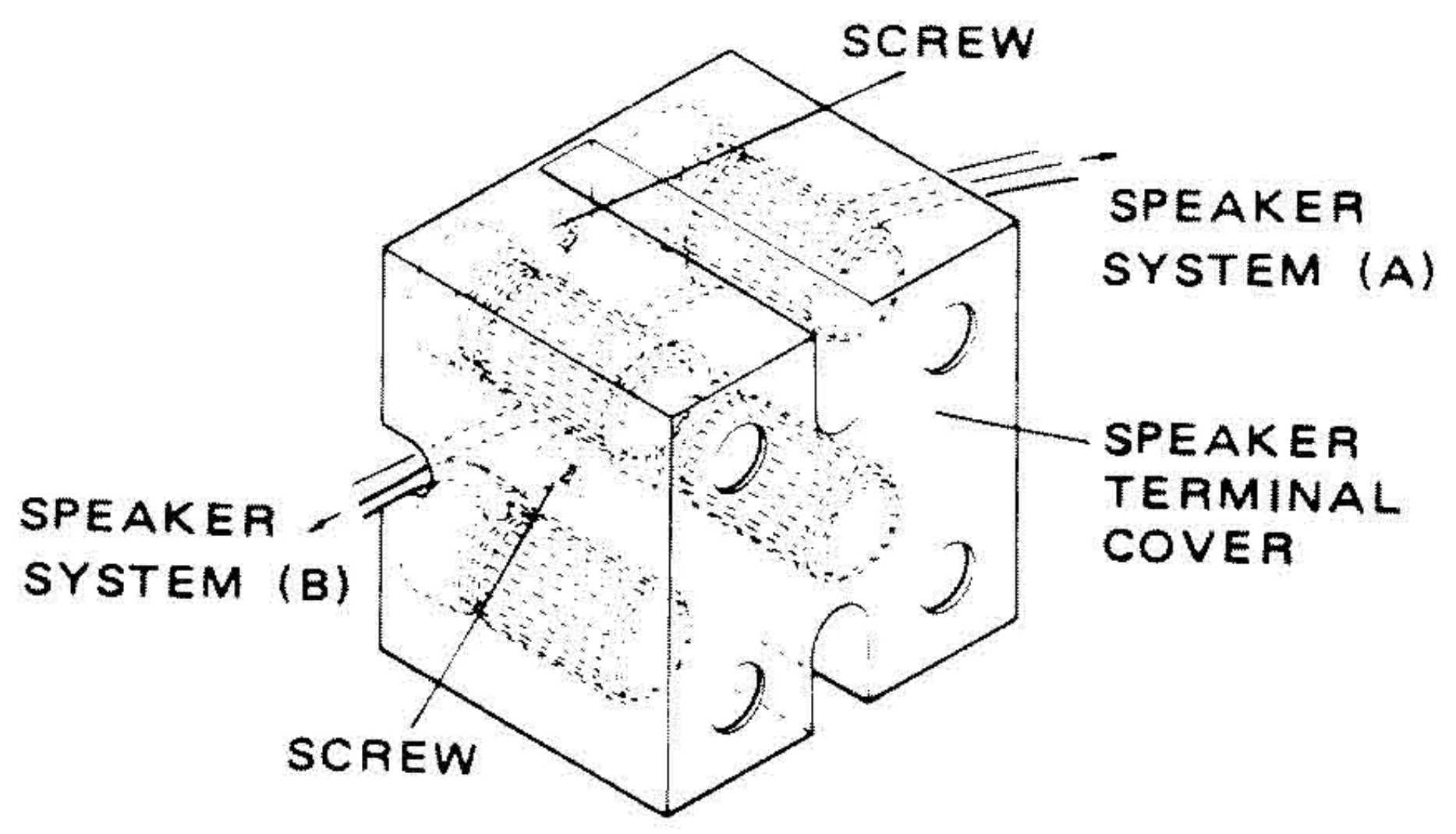
- **Connection to the speaker system**
  - When connecting the speaker terminals to the speaker systems, make certain to connect the polarities correctly (+ to + and – to –). If the polarities are incorrect when the two are connected, the center area of the sound will be lacking, the positions of the musical instruments will not be clear, and the stereo directional sensitivity will be impaired.
  - During connection, be careful that the center wires in the speaker cords do not protrude from the terminals to contact any other terminal, and that the central wires in the separate speaker cords do not contact each other.
- **Speaker impedance**
  - When the A and B terminal sets are to be used separately, the speakers that are to be connected should have a nominal impedance of 4 to 16 ohm.
  - When the two sets (A + B) are to be used at the same time, use of speakers whose impedance is outside the range from 8 to 16 ohm will result in malfunction. Be careful not to let this happen.
  - Speakers with a lower impedance may cause the protective circuitry to operate.

Models for the U.S. and Canada only. (Case of UL standardized articles)

WARNING!

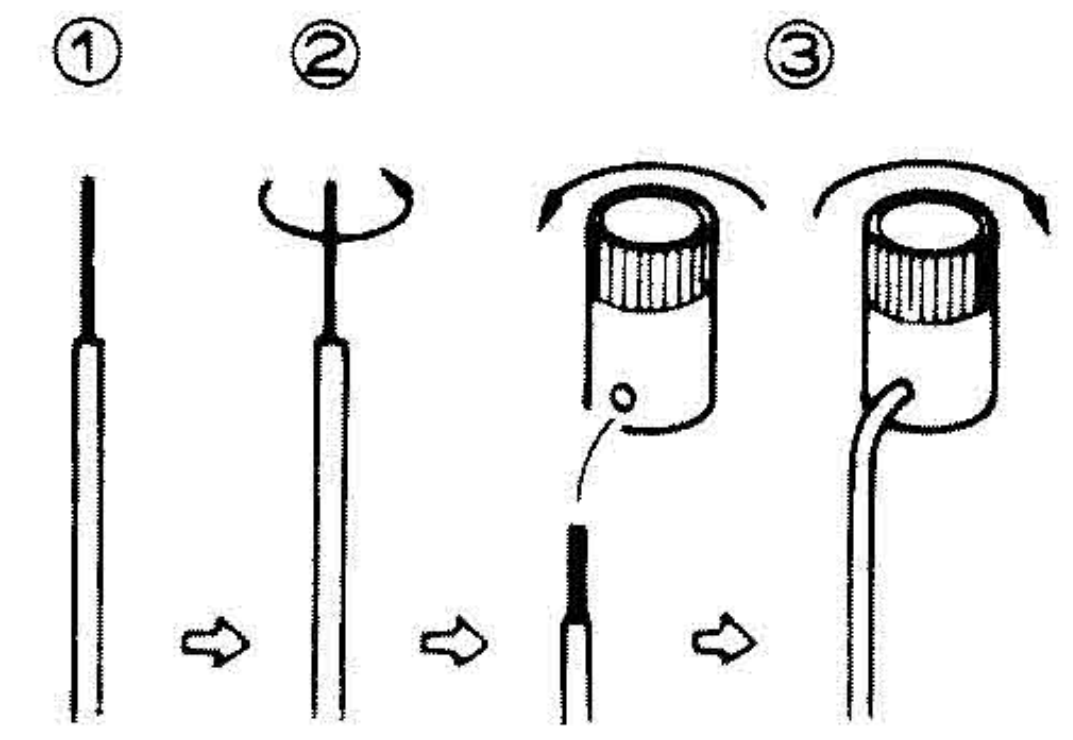
This amplifier produces a large power output at the speaker terminals, which means that a dangerous amount of energy is generated and that there is the danger of electric shock. Please perform the speaker cord connections correctly as follows.
(Making connections that differ from the specified method may give rise to a shock hazard.)

1) For the speaker connection cord, use a cord made with non-combustible insulation material with a VW-1 rating or a cord of the SPT-1 type or one with higher flexibility.
2) Use a screwdriver to take the screws holding the speaker terminal cover out.
3) Connect the speaker cord specified in 1) to the speaker terminals.
4) Tie the speaker cord, then pass it through the cutout hole in the speaker terminal cover.
5) Install the speaker terminal cover removed in 2).

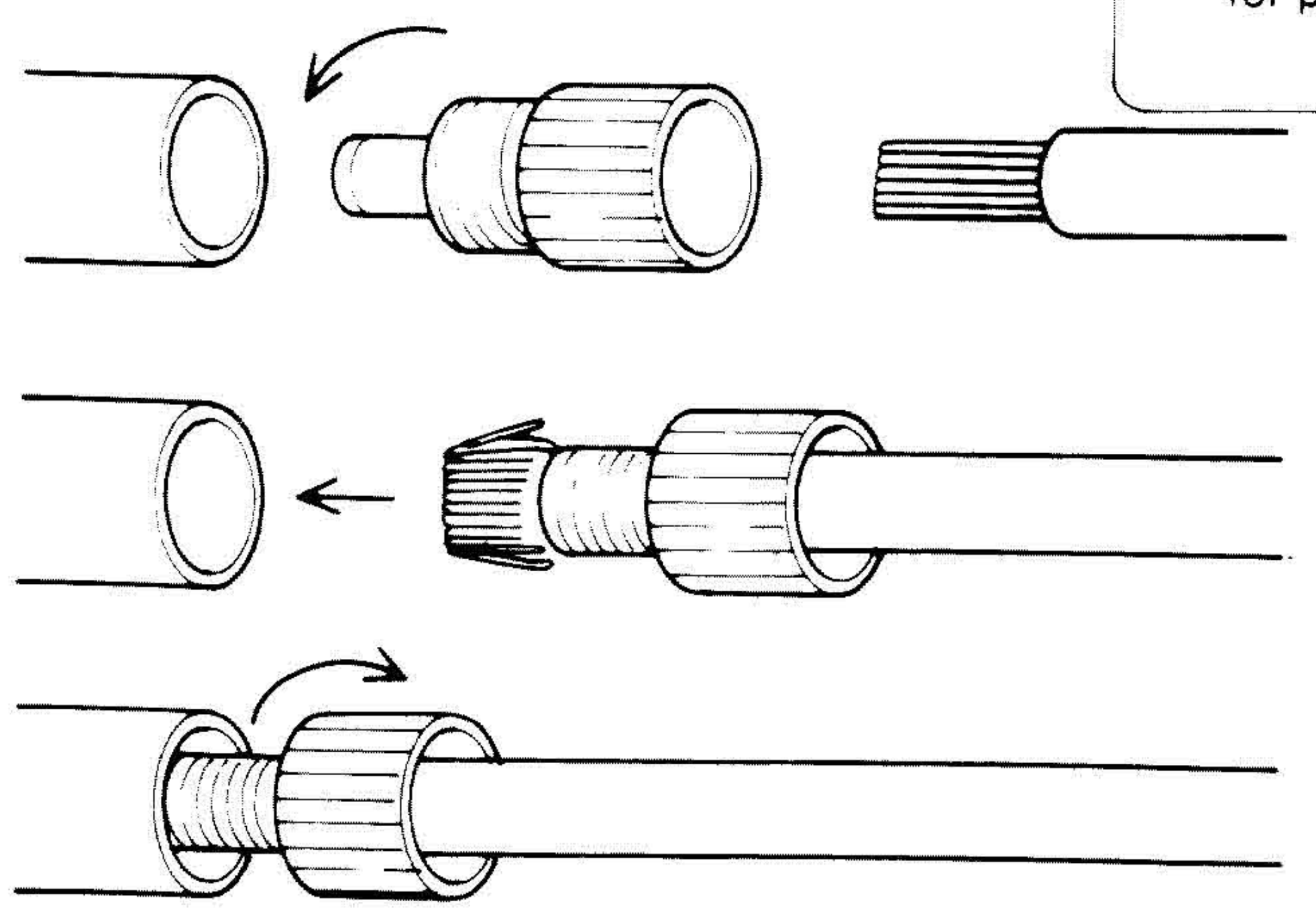

SCREW
SPEAKER SYSTEM (A)
SPEAKER TERMINAL COVER
SPEAKER SYSTEM (B)
SCREW

Models for destinations other than the U.S. and Canada.

- **For regular cords**
  1. Remove the insulation from the end of each cord.
  2. Twist the center wire.
  3. Turn the speaker terminal to loosen it, insert the center wire of the cord, and then tighten the terminal to hold the wire in place.



- **For extra-large cords**
  1. Remove the insulation from the end of the cord. Loosen and remove the end of the speaker terminal.
  2. Insert the center wire, and bend back the wire.
  3. Insert the cord in the terminal, and turn the terminal to the right to tighten it.

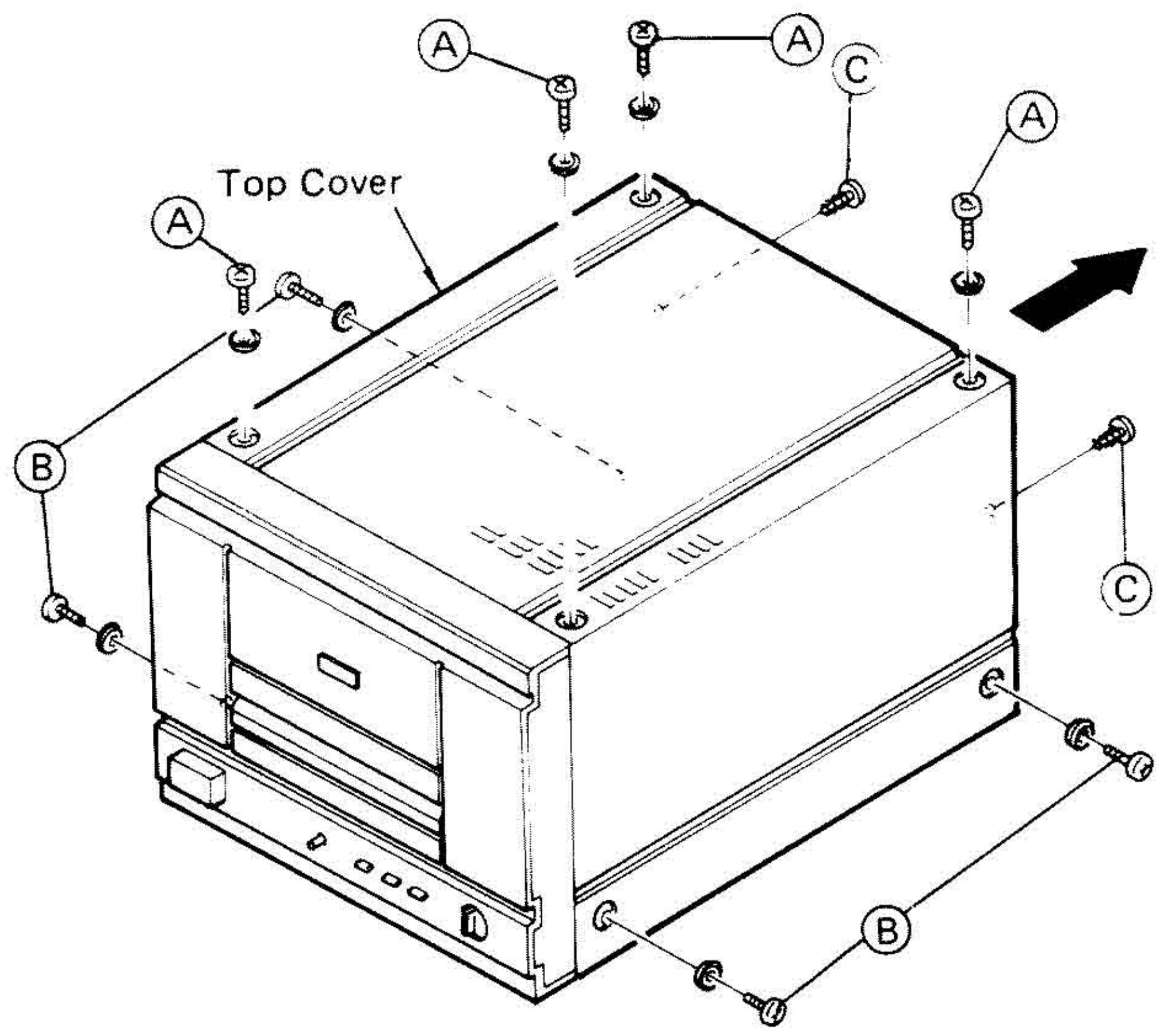


Note:
The knob on this speaker terminal can be removed from the Amplifier. Be careful not to lose these knobs, or mix up the left and right sides or polarities. Follow the indication provided on the back panel for proper handling.

REMOVAL OF EACH SECTION

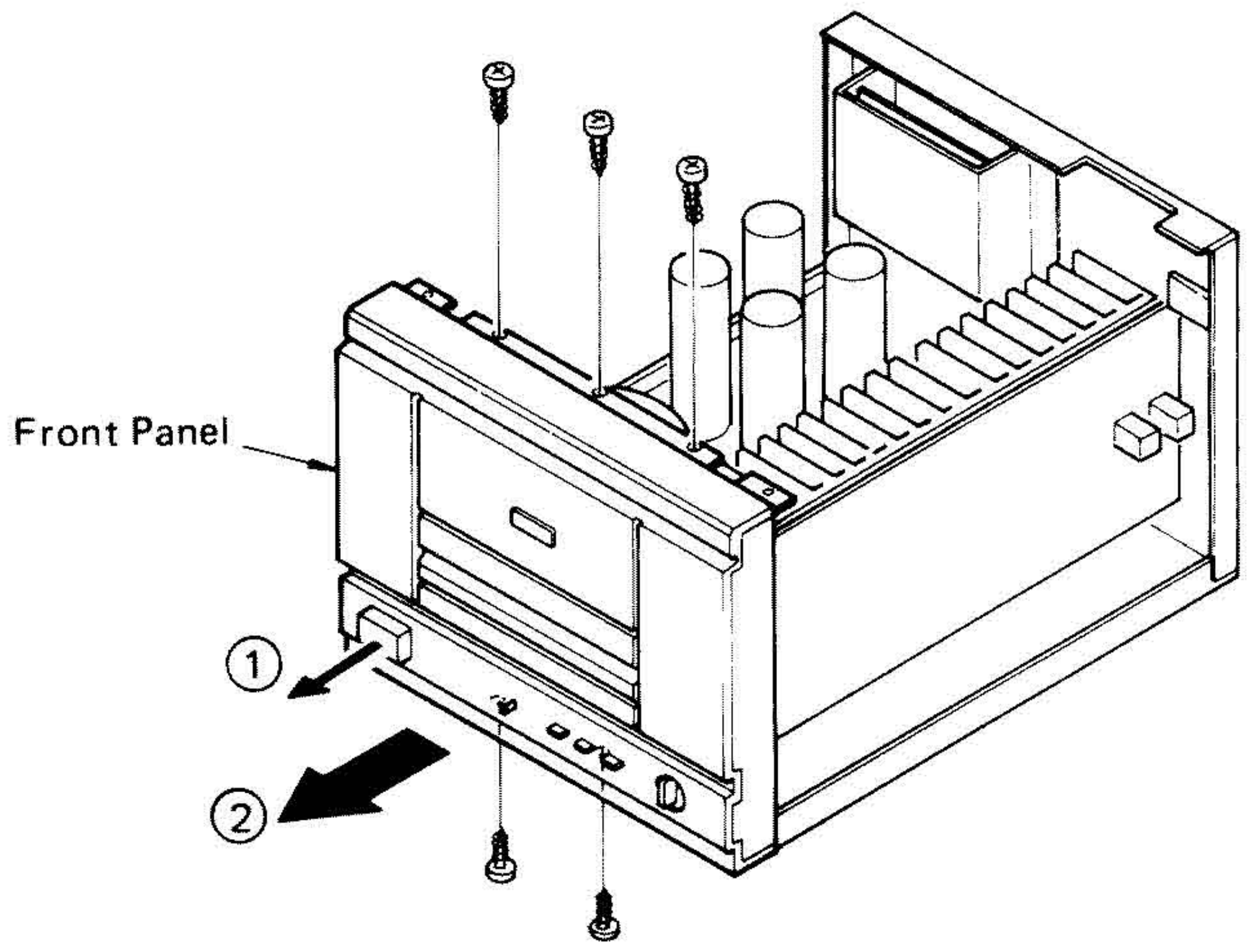
1. Top Cover

Remove 4 screws with washers Ⓐ from the both side, 4 screws with washers Ⓑ from left and right side and 2 screws Ⓒ from the backside and detach the top cover in the direction arrow shows.



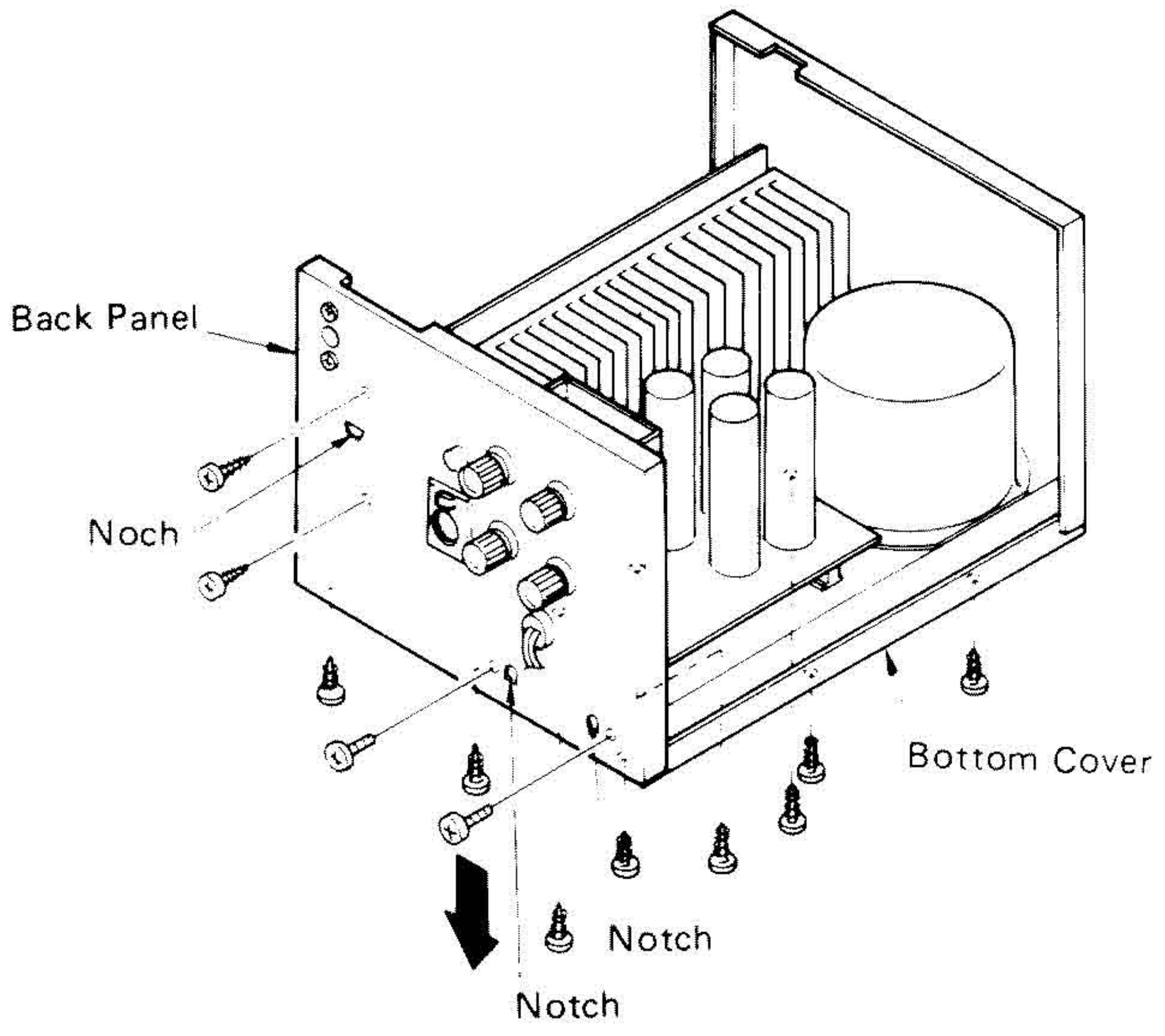
2. Front Panel

1) Pull out the Power Knob picking up by hand. (As the power switch is easily broken).
2) Unfasten 2 screws from the bottom, 3 screws from the top, and dismantle the Front Panel in the direction arrow shows.



3. Back Panel

Remove 8 screws from the bottom, and take out the Bottom Cover. Then remove 4 screws from the back panel, and detach the Back Panel out of the 3 notches in the direction as arrow shows.



METHOD OF ADJUSTMENTS

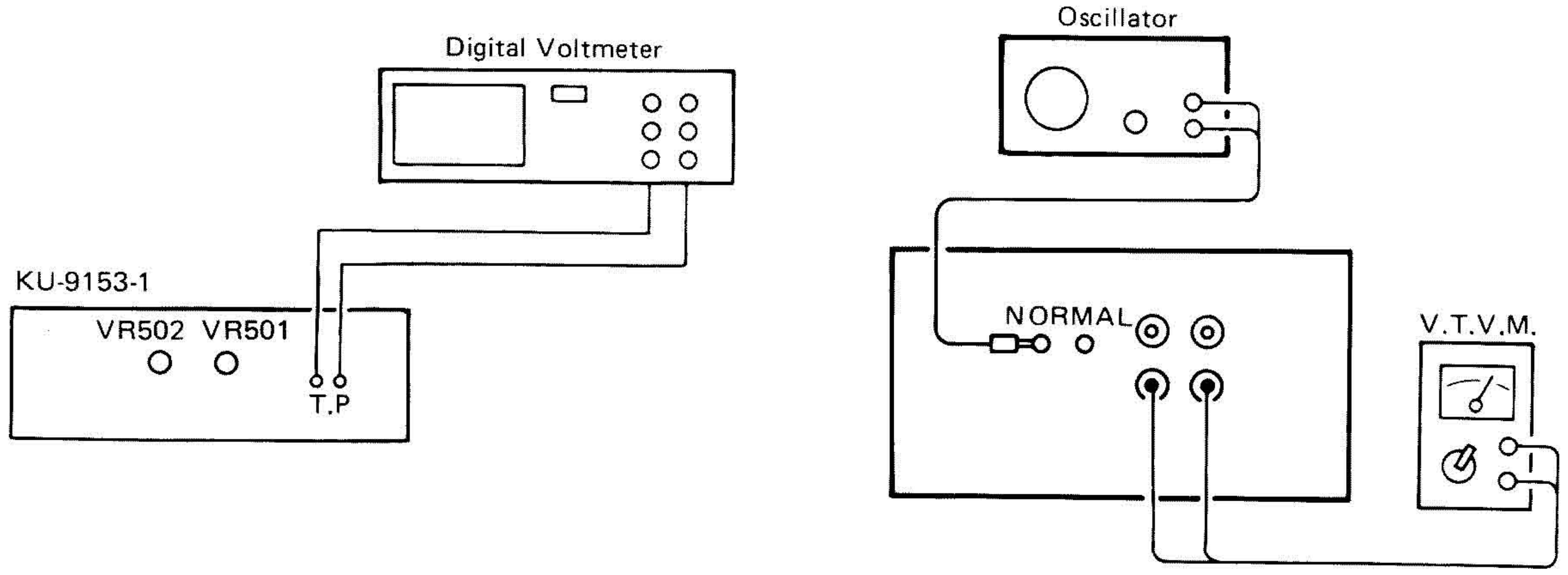
1. Adjustment of Idle Current (KU9153-1)

- **Setup**

1. Keep the unit away from direct wind blown by an air-conditioner and an electric fan, and keep the unit under normal conditions. Adjust the range of ambient temperature to 15 – 30°C.
2. Set the following switches as follows:
   - POWER (Power switch) to off
   - INPUT LEVEL (level control) to 0 (↺)
   - SPEAKERS (Speaker terminal) to no load (Speakers disconnected)

- **Adjustment**

1. Connect DC Voltmeter to Test Points (T.P) of KU9153-1.
2. Turn Power Switch "ON".
3. Adjust VR501 so that the DC Voltmeter reads 0.5 ~ 1 mV.
4. Then after 10 minutes warmup, readjust VR501 so that the DC Voltmeter reads 8 ±1 mV.
5. Connect V.T.V.M. to the Speaker Terminals.
6. Set the Oscillator frequency at 1 kHz, and Output Level at 100 mV, then connect with NORMAL Input Terminal.
7. Adjust the LEVEL Control turning clockwise to obtain the indication of the V.T.V.M. connected to the Speaker Terminal becomes 2 V.
8. Confirm that the DC Voltmeter connected to the T.P. becomes slightly greater value, then adjust the VR502 to obtain 30 ±5 mV on the meter.
9. After 15 minutes, readjust the VR502 for 35 ±5 mV.



2. Adjustment of Neutral Point Voltage

(1) Connect a digital voltmeter to the SPEAKER terminal.
(2) Turn the unit power on.
(3) Turn the LEVEL controls on the back panel fully clockwise (maximum).
(4) Confirm the voltage on the meter indicates within ±100 mV value.

TROUBLESHOOTING

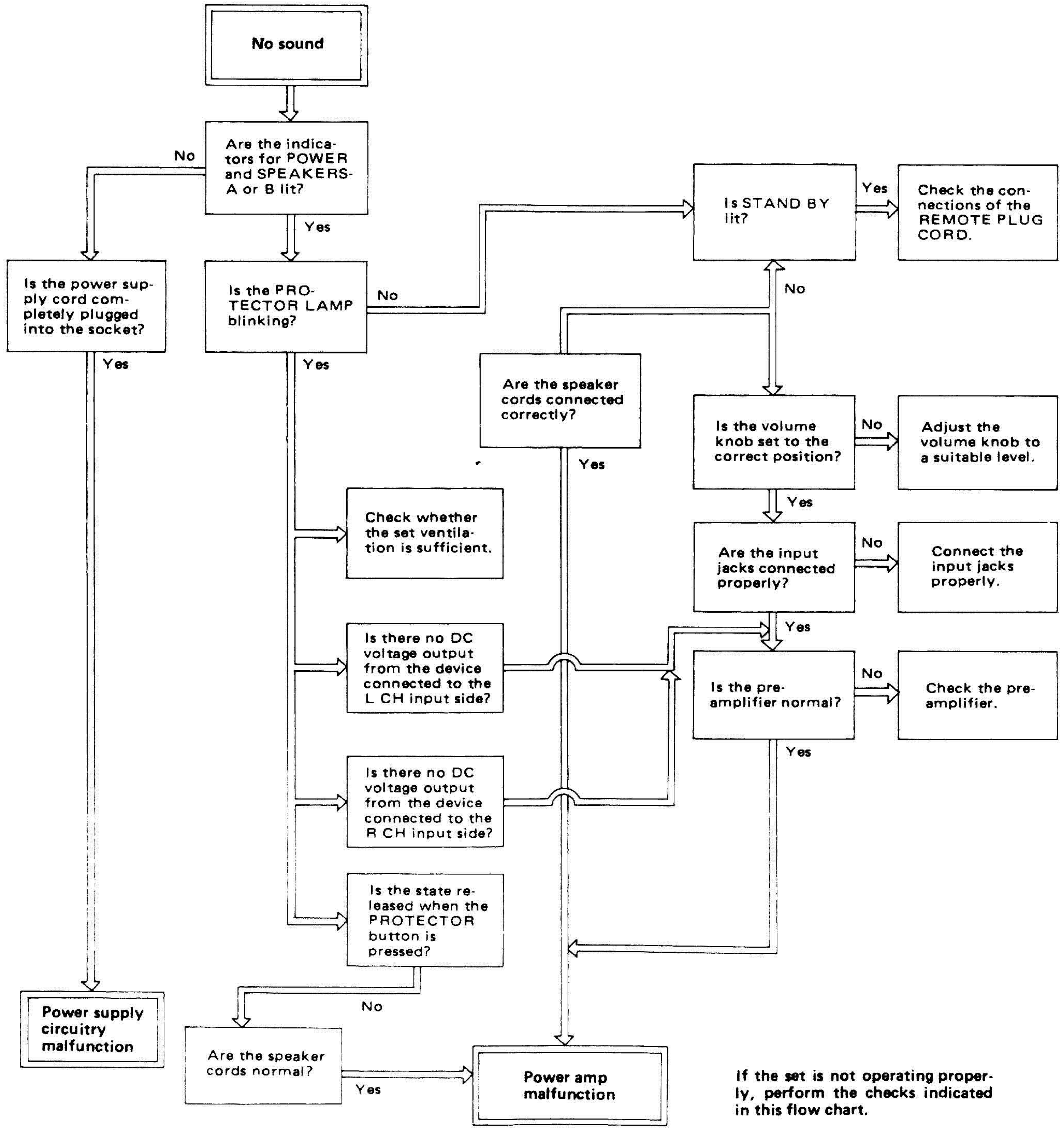
Before troubleshooting, be sure to check whether your audio system is really the source of the problem.

If you think the amplifier is out of order, first check the following one more time:

1. Are all the connections correctly made?
2. Is the set being operated properly in accordance with the Operating Manual?
3. Are the speakers and preamplifier being operated correctly?

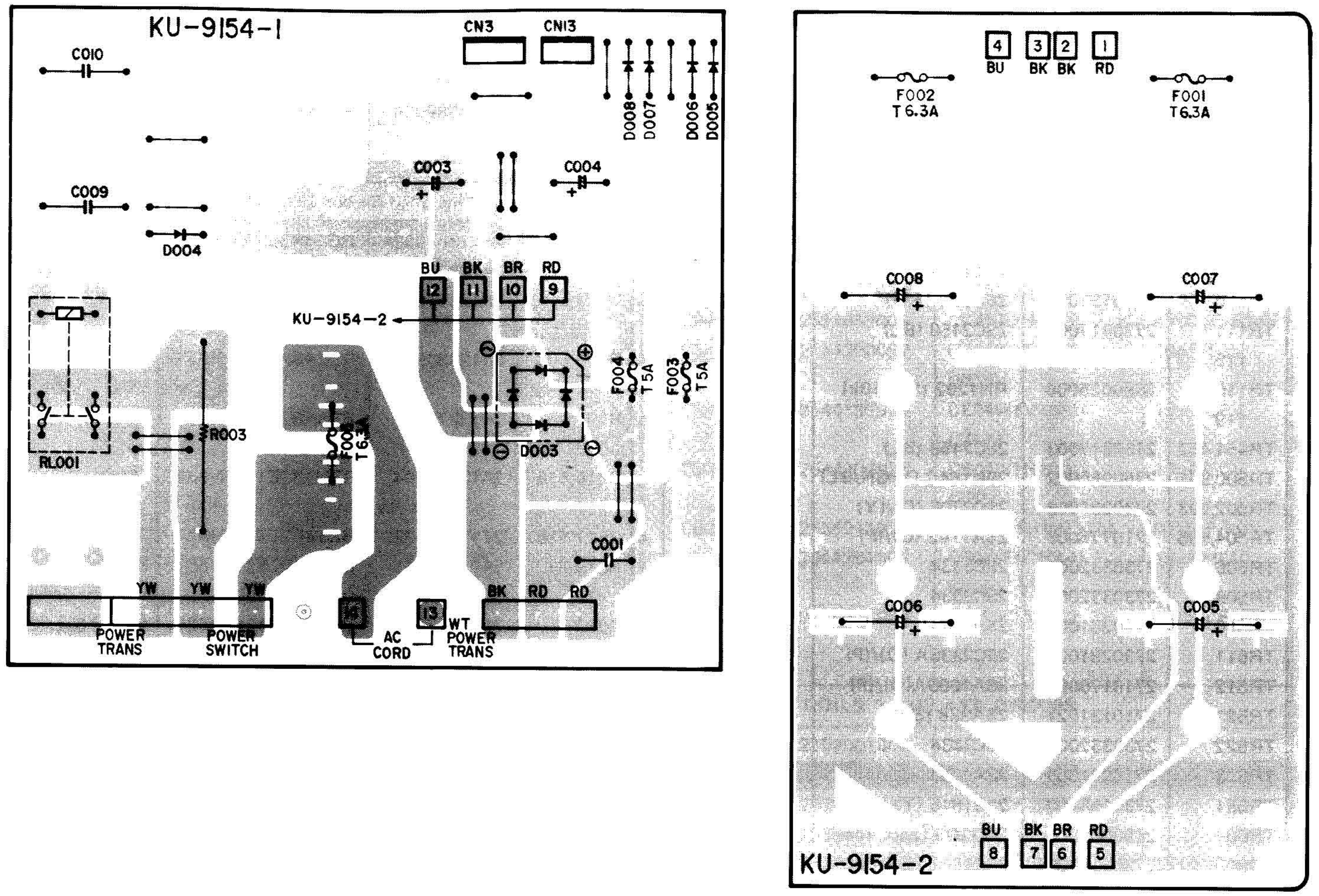
If the set does not operate properly, perform the checks indicated in the flow chart below.

If none of the items listed apply to the difficulty, the amplifier is probably out of order. Turn off the power immediately, and contact the outlet where you purchased the amplifier or your nearest DENON dealer.

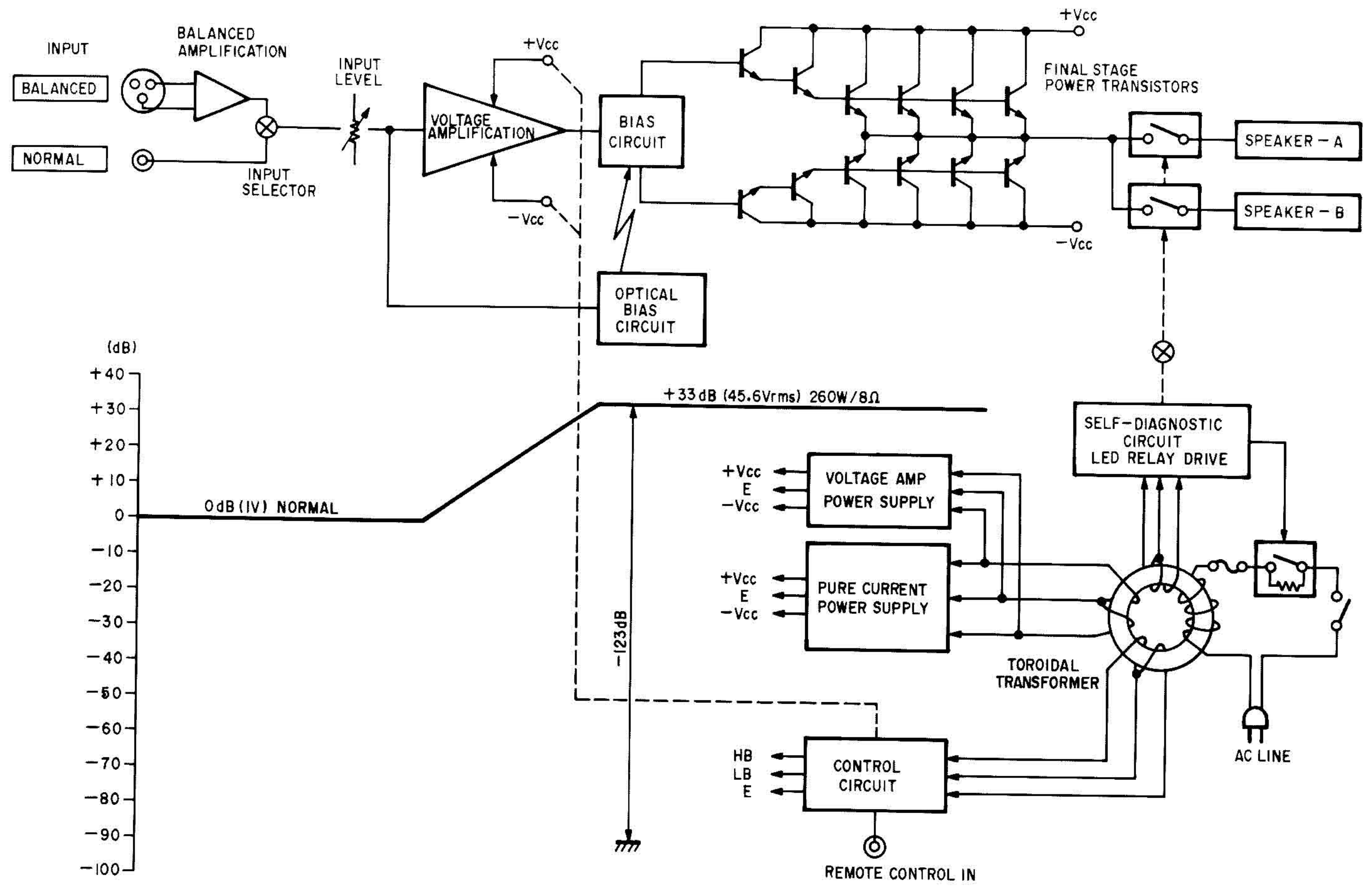

No sound
Are the indicators for POWER and SPEAKERS-A or B lit?
No
Yes
Is the power supply cord completely plugged into the socket?
Yes
Power supply circuitry malfunction
Is the PROTECTOR LAMP blinking?
No
Yes
Is STAND BY lit?
Yes
Check the connections of the REMOTE PLUG CORD.
No
Are the speaker cords connected correctly?
Yes
Is the volume knob set to the correct position?
No
Adjust the volume knob to a suitable level.
Yes
Are the input jacks connected properly?
No
Connect the input jacks properly.
Yes
Is the pre-amplifier normal?
No
Check the pre-amplifier.
Yes
Check whether the set ventilation is sufficient.
Is there no DC voltage output from the device connected to the L CH input side?
Is there no DC voltage output from the device connected to the R CH input side?
Is the state released when the PROTECTOR button is pressed?
No
Are the speaker cords normal?
Yes
Power amp malfunction

If the set is not operating properly, perform the checks indicated in this flow chart.

KU9154 P.S. UNIT


KU-9154-1
C010
C009
D004
CN3
CN13
D008
D007
D006
D005
C003
C004
BU BK BR RD
12 11 10 9
KU-9154-2
RL001
R003
F005 T6.3A
F004 T5A
F003 T5A
D003
C001
YW YW YW
POWER TRANS
POWER SWITCH
16
AC CORD
13
WT POWER TRANS
BK RD RD
4 3 2 1
BU BK BK RD
F002 T6.3A
F001 T6.3A
C008
C007
C006
C005
KU-9154-2
BU BK BR RD
8 7 6 5

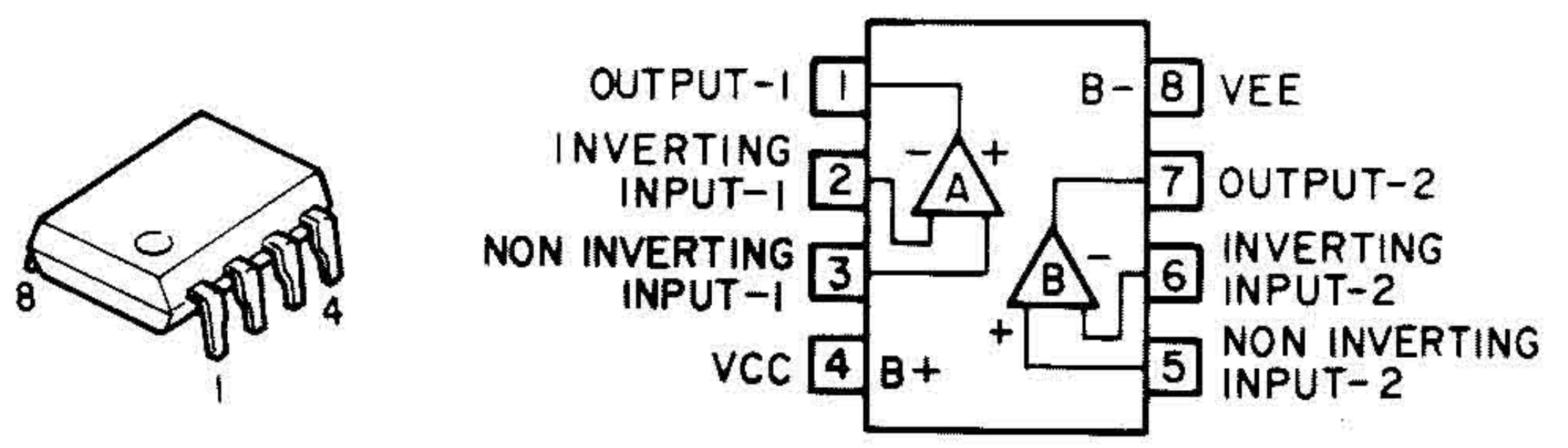
BLOCK DIAGRAM


INPUT
BALANCED
NORMAL
BALANCED AMPLIFICATION
INPUT SELECTOR
INPUT LEVEL
VOLTAGE AMPLIFICATION
+Vcc
−Vcc
BIAS CIRCUIT
OPTICAL BIAS CIRCUIT
FINAL STAGE POWER TRANSISTORS
SPEAKER − A
SPEAKER − B
(dB)
+40
+30
+20
+10
0
−10
−20
−30
−40
−50
−60
−70
−80
−90
−100
0dB (1V) NORMAL
+33dB (45.6Vrms) 260W/8Ω
−123dB
SELF-DIAGNOSTIC CIRCUIT LED RELAY DRIVE
+Vcc
E
−Vcc
VOLTAGE AMP POWER SUPPLY
PURE CURRENT POWER SUPPLY
TOROIDAL TRANSFORMER
AC LINE
HB
LB
E
CONTROL CIRCUIT
REMOTE CONTROL IN

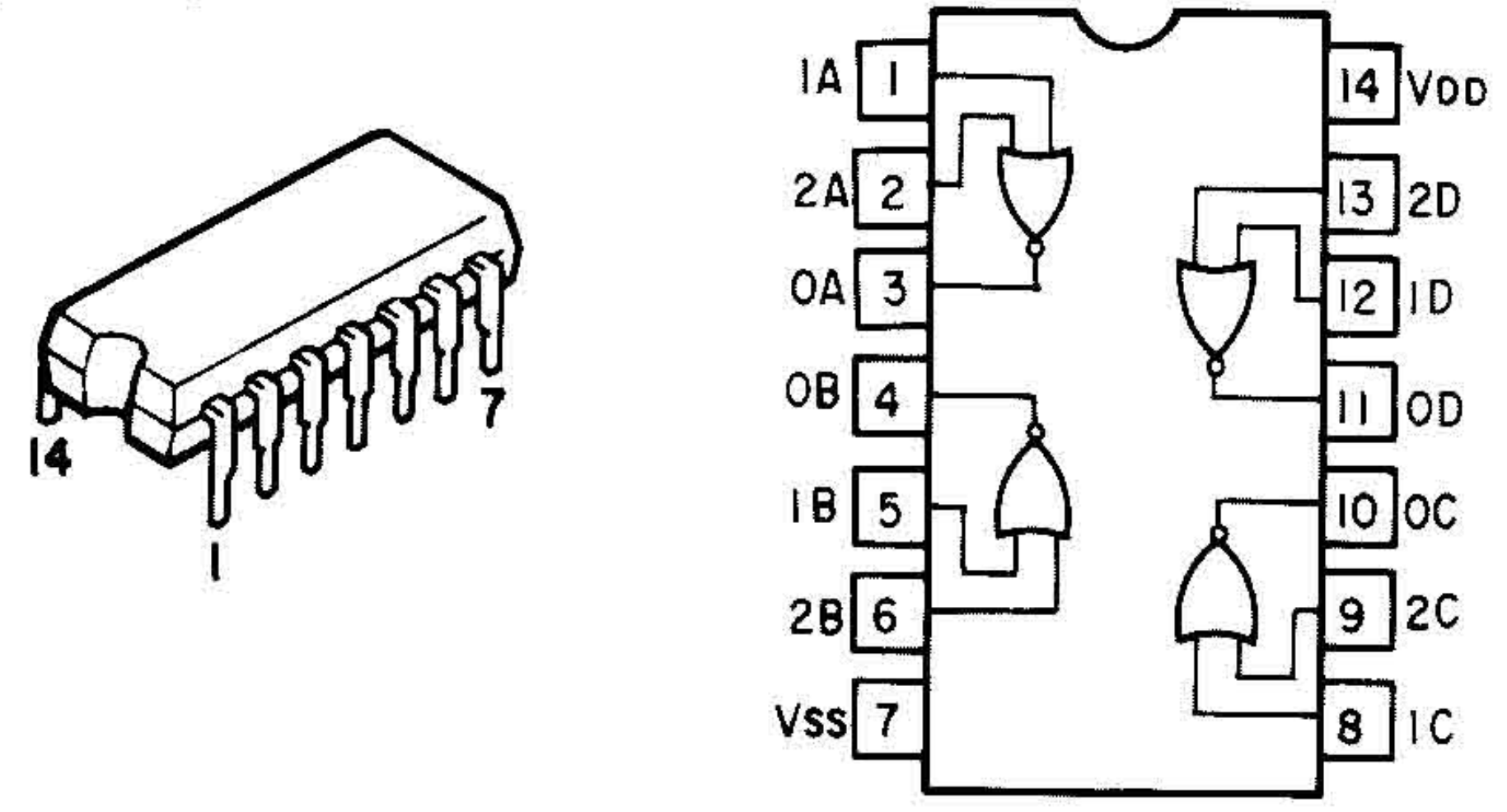
SEMICONDUCTORS

• IC

NJM-2068DA (JRC)
M-5238P (Mitsubishi)

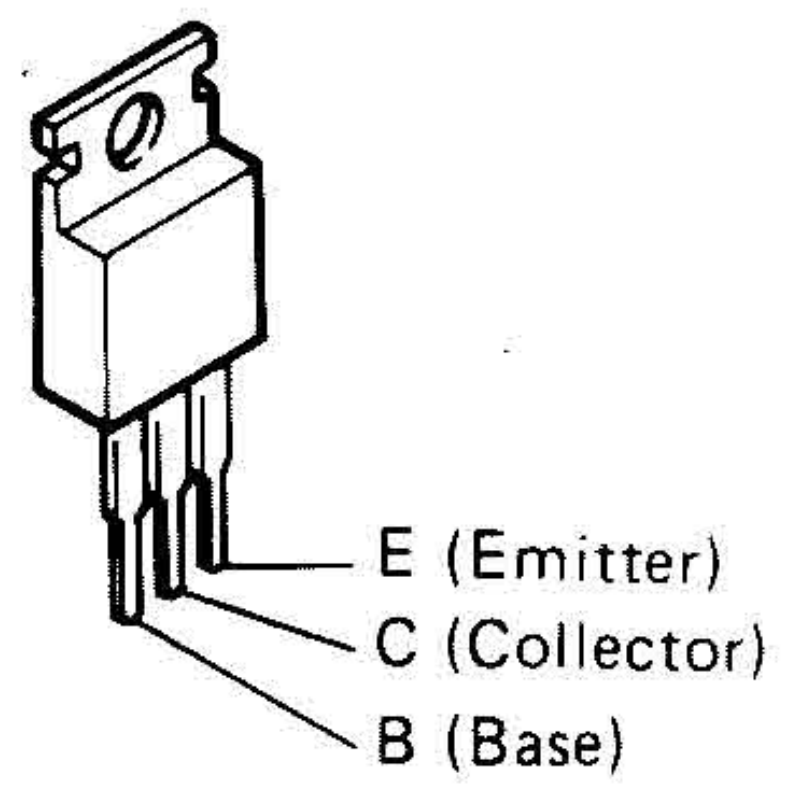

8
4
1
OUTPUT-1 1
INVERTING INPUT-1 2
NON INVERTING INPUT-1 3
VCC 4 B+
B− 8 VEE
7 OUTPUT-2
6 INVERTING INPUT-2
5 NON INVERTING INPUT-2
A
B

HD14001BP
(Hitachi)

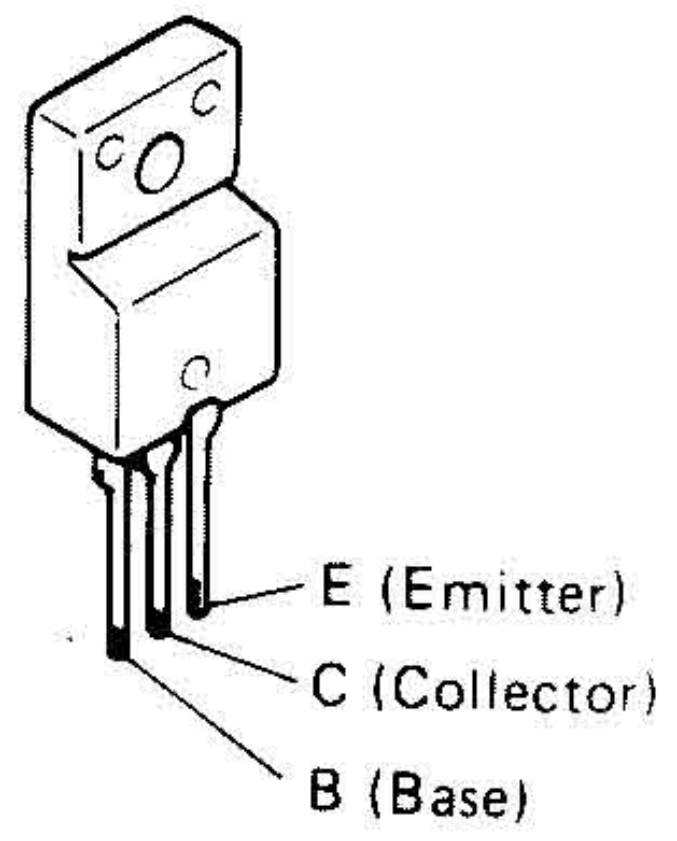

14
7
1
1A 1
2A 2
OA 3
OB 4
1B 5
2B 6
Vss 7
14 VDD
13 2D
12 1D
11 OD
10 OC
9 2C
8 1C

• Transistor

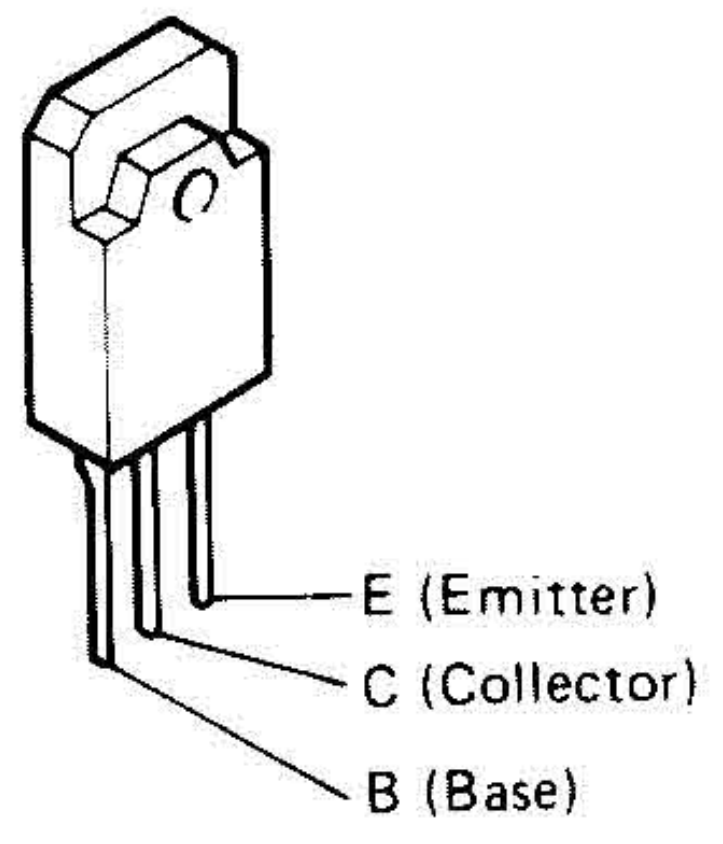
2SC2336A (Q)/(P)
2SA1006A (Q)/(P)


E (Emitter)
C (Collector)
B (Base)

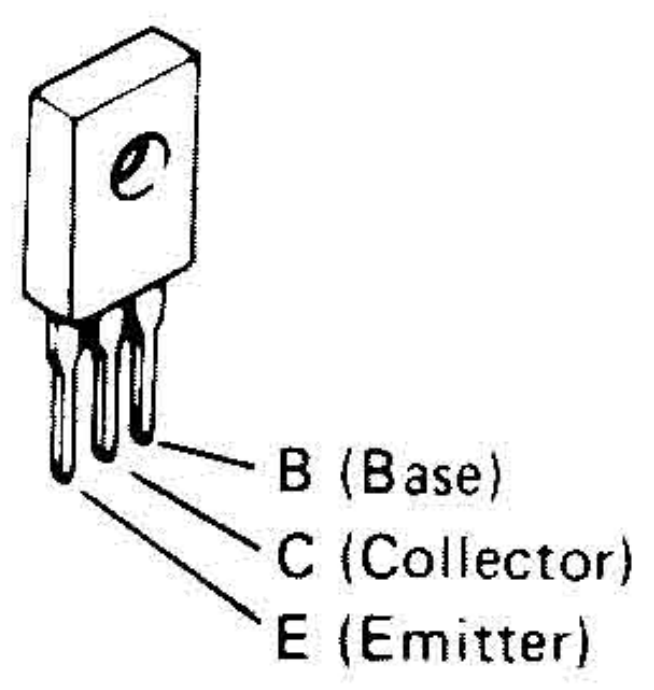
2SD1944


E (Emitter)
C (Collector)
B (Base)

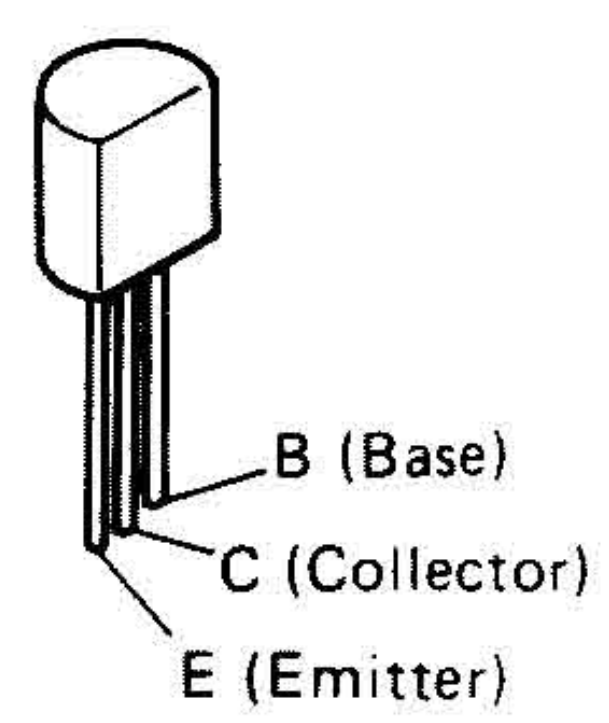
2SA1492LB(O/P/Y)
2SC3856LB(O/P/Y)


E (Emitter)
C (Collector)
B (Base)

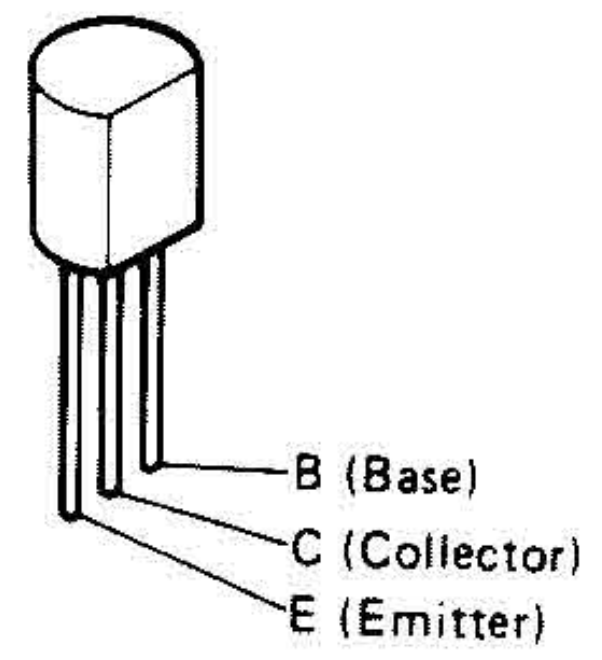
2SA1142 (Q)/(P)


B (Base)
C (Collector)
E (Emitter)

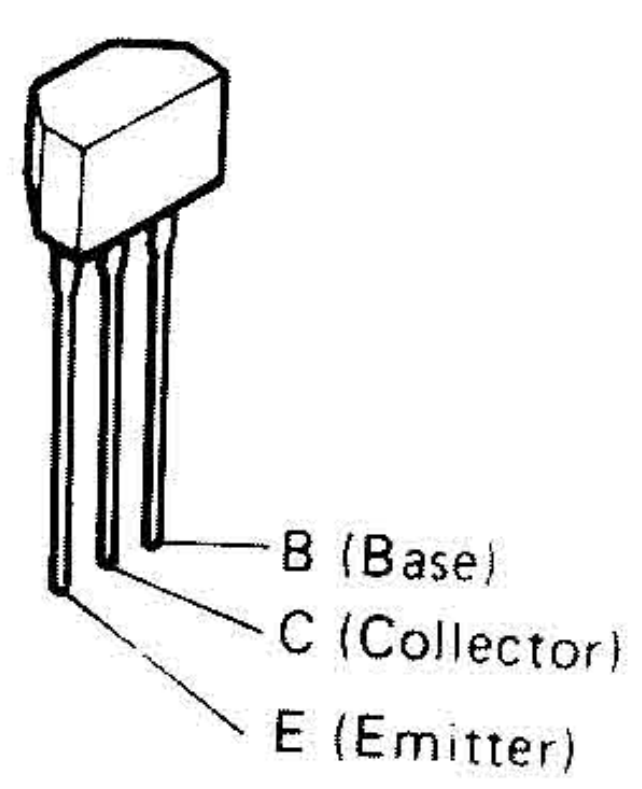
2SC1815 (BL)
2SC2878 (A/B)
2SA988 (E/F)


B (Base)
C (Collector)
E (Emitter)

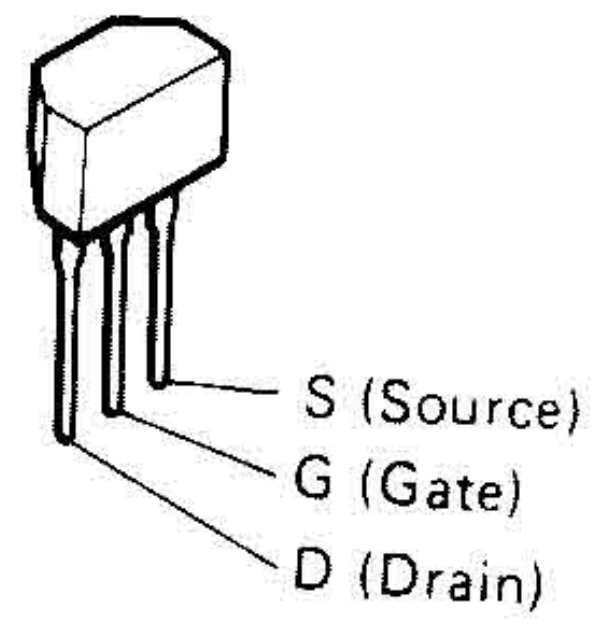
2SC2705(O/Y)
2SC3334
2SA1321


B (Base)
C (Collector)
E (Emitter)

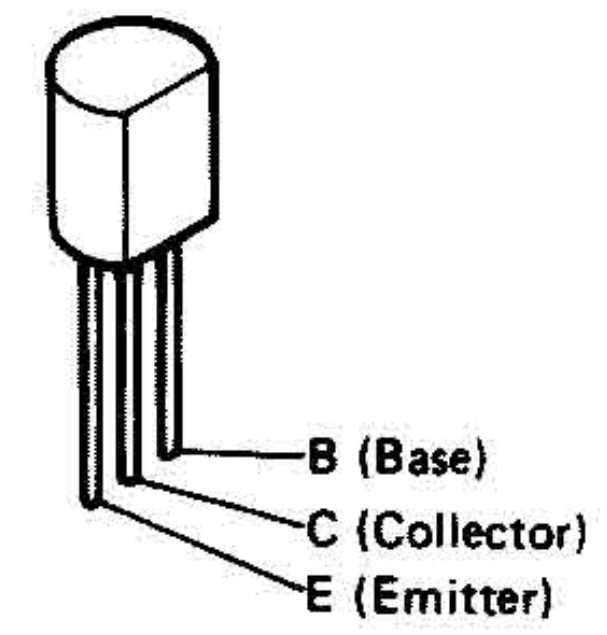
2SC2458(BL)


B (Base)
C (Collector)
E (Emitter)

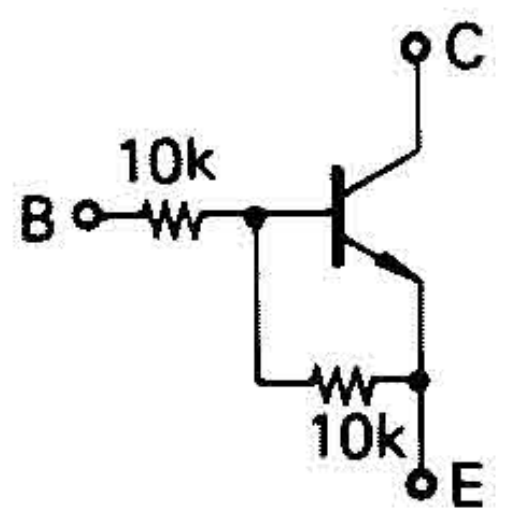
2SK184C(Y/GR/BL)


S (Source)
G (Gate)
D (Drain)

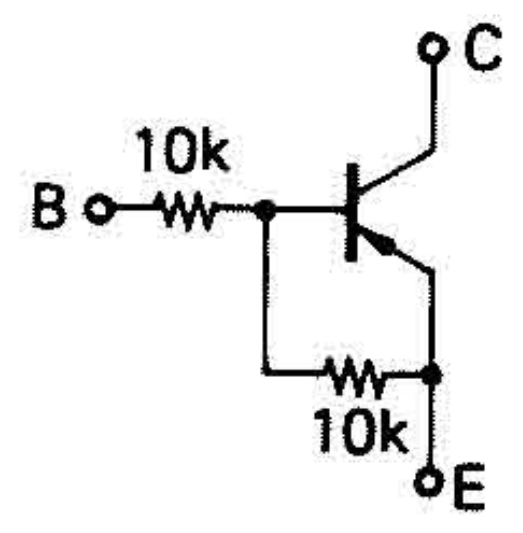
RN1202 (10K-10K)NPN
RN2202 (10K-10K)PNP
RN1205 (2.2K-47K)NPN


B (Base)
C (Collector)
E (Emitter)

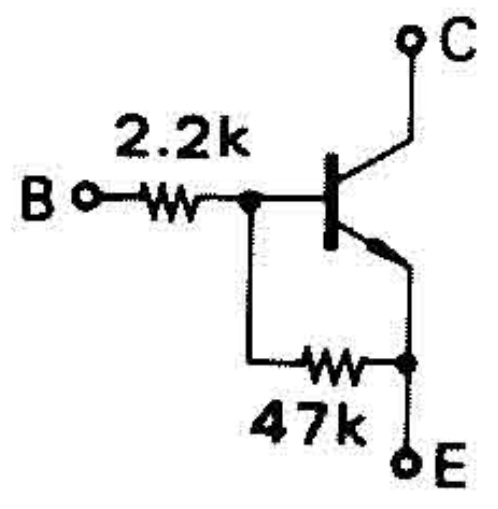
RN1202



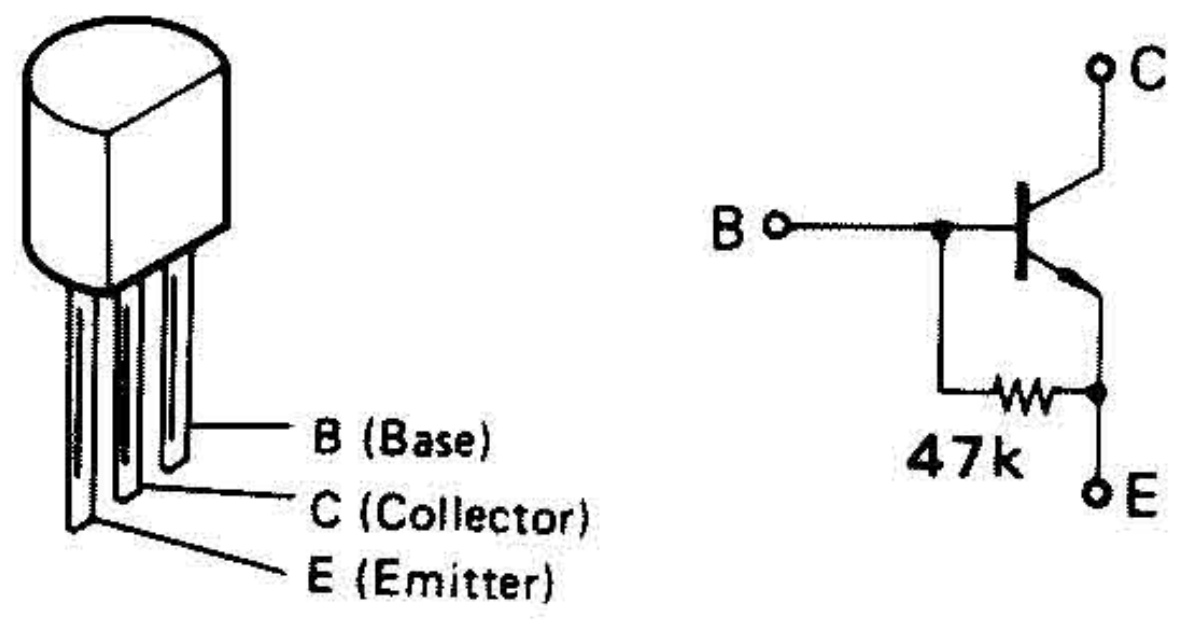
RN2202



RN1205

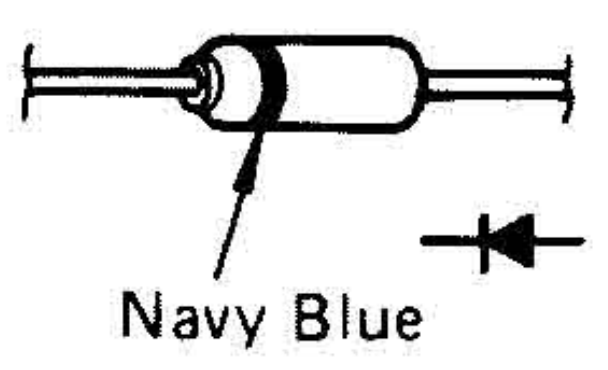


2SC4067

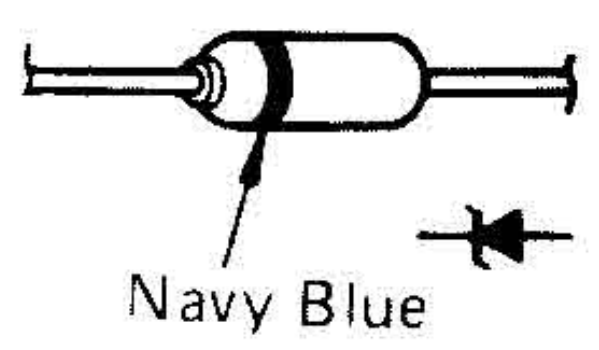

B (Base)
C (Collector)
E (Emitter)
C
B
47k
E

•Diode

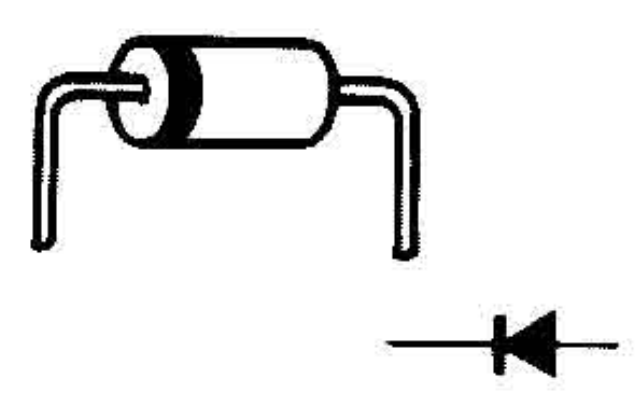
1S2076A



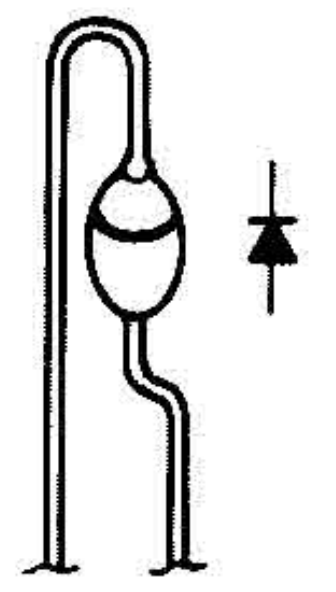
HZ-5C-1
HZ7B-3
HZ9B-2
HZ15-2



DSM1A2 (type-2)

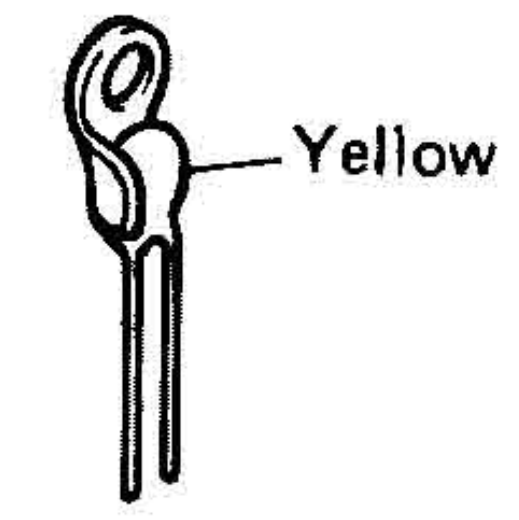


DSA1A2(Type-3)



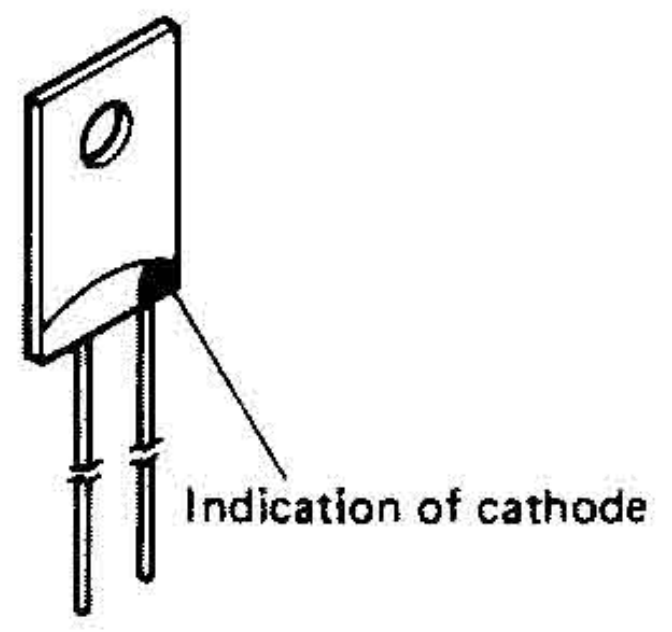
PTH487A01BD222TS

Posistor

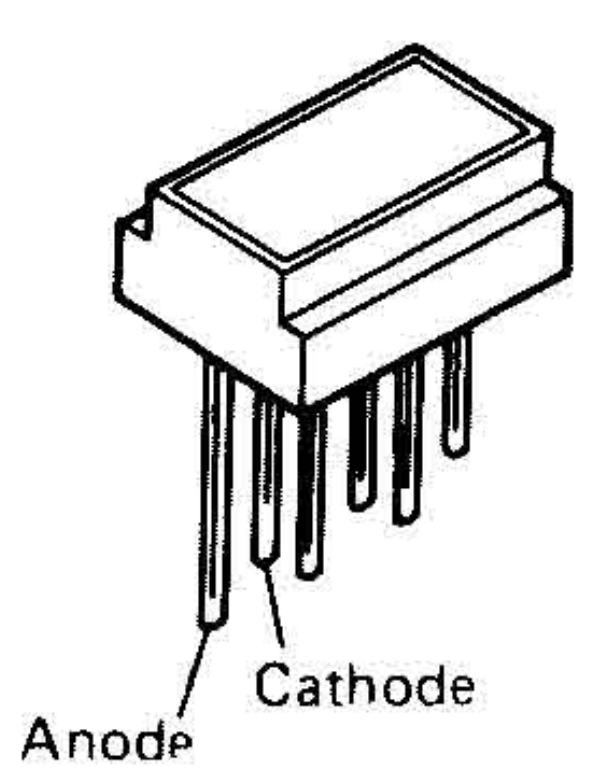


MV-1YH

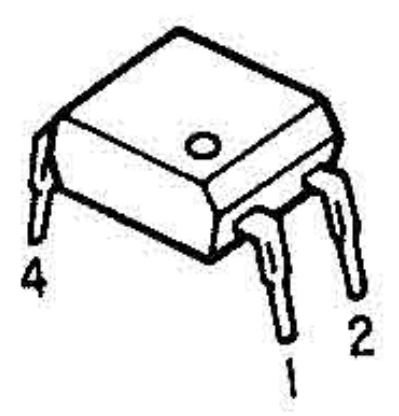
Indication of cathode, white


Indication of cathode

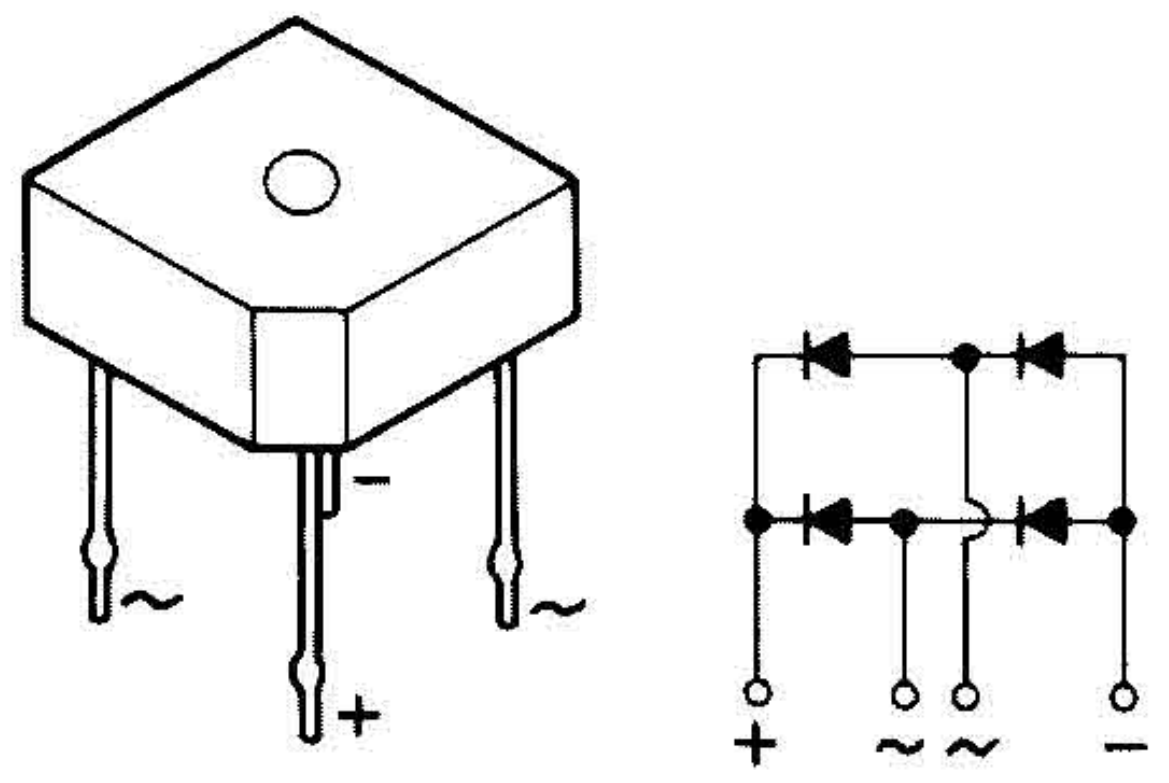
SLF-406
SLF-206B


Cathode
Anode

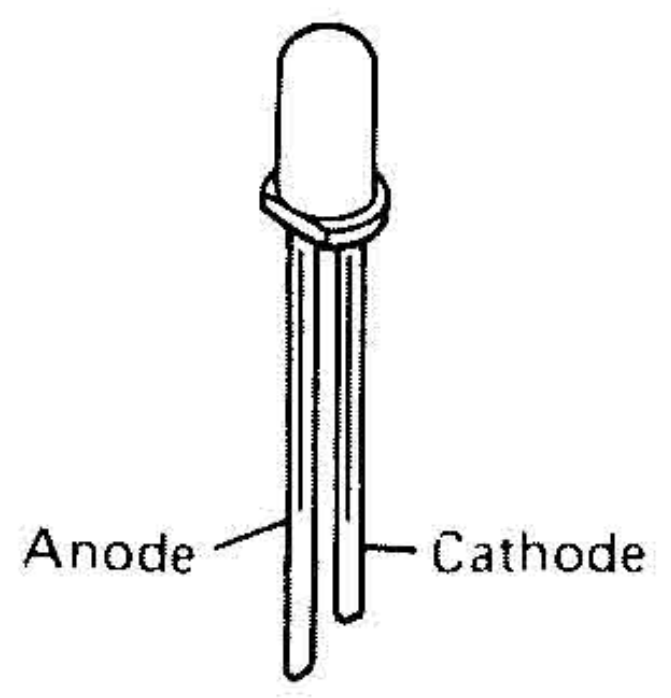
TLP-521-1 (BL)



4D4B42(LCI)

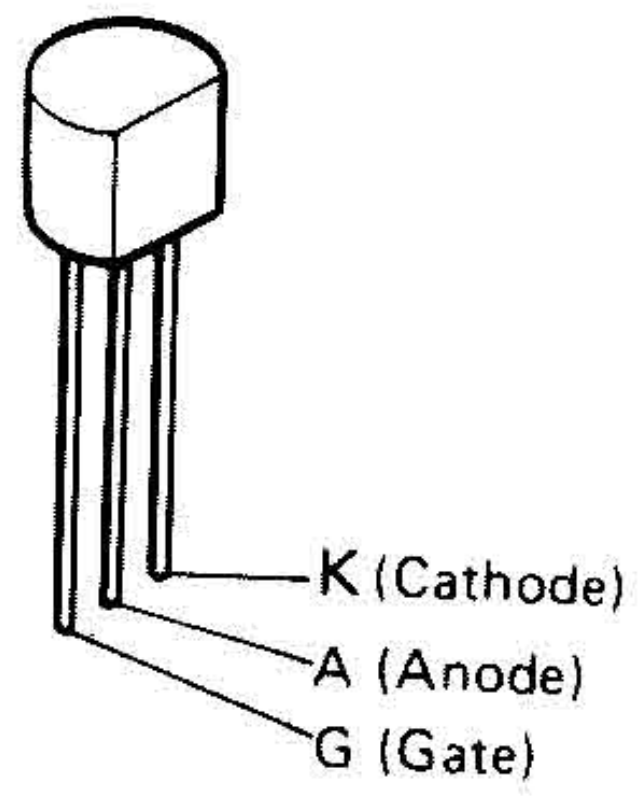


SEL-4814A
SEL-4914A
SEL-4214S

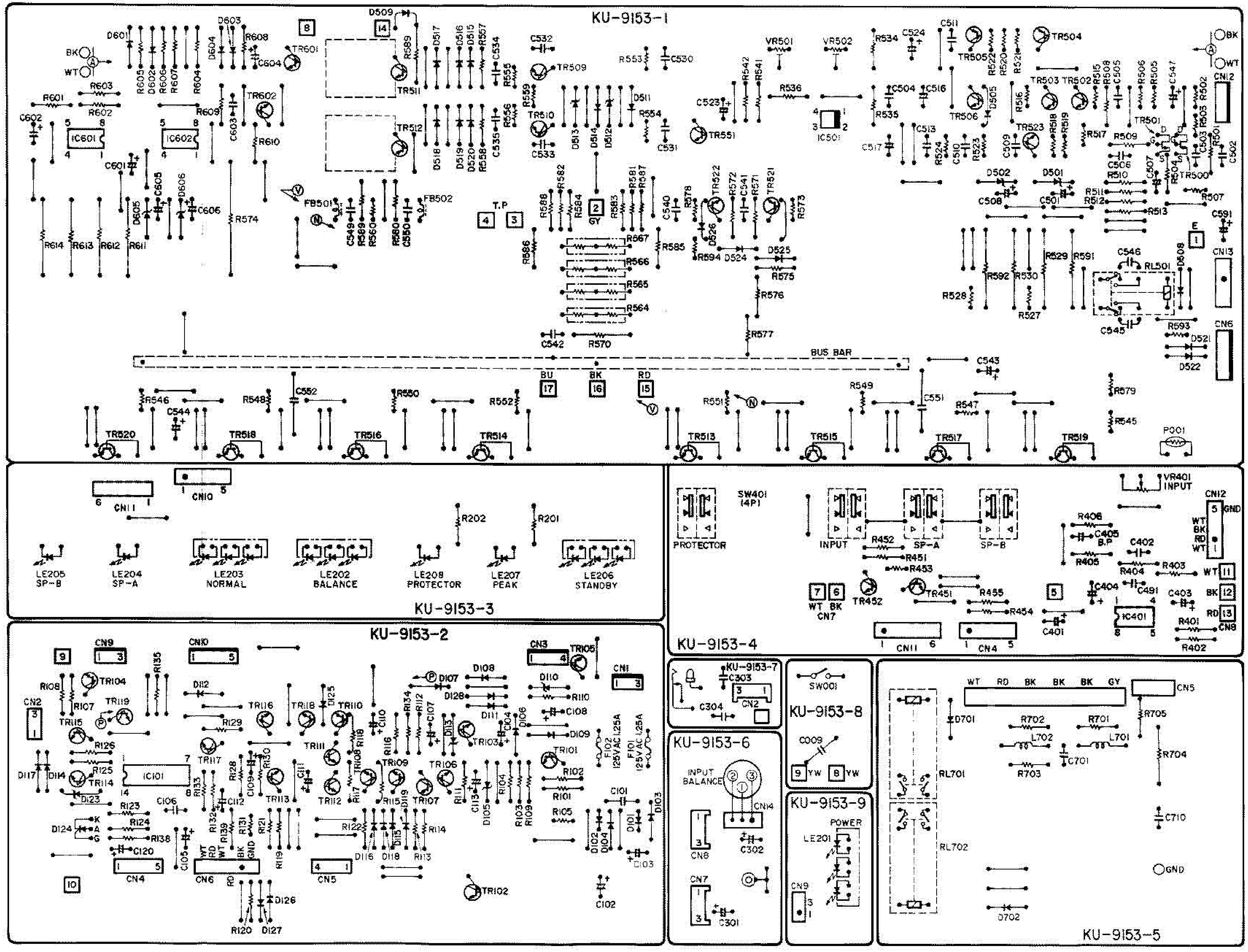

Anode
Cathode

SFOR1A42

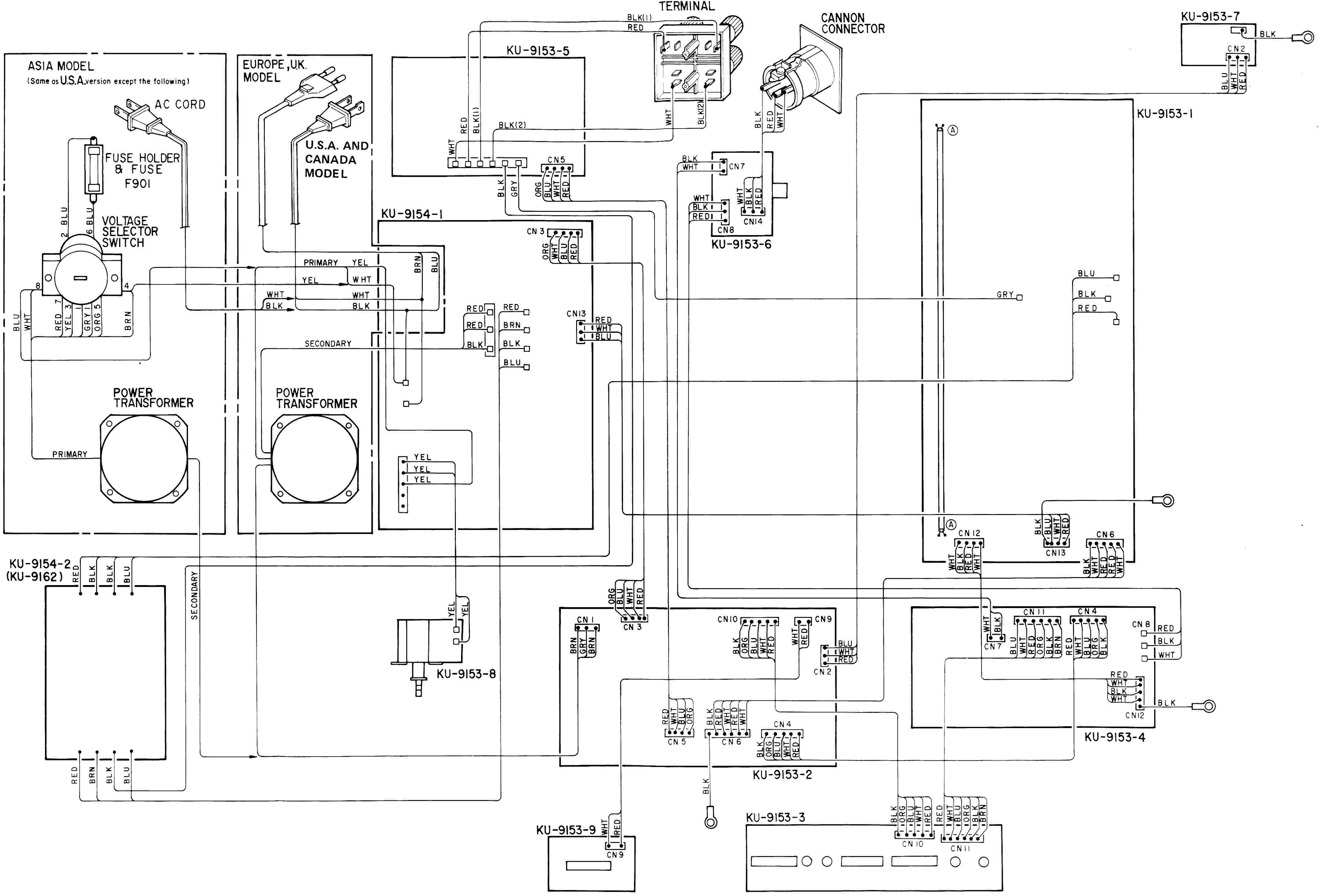
Thyristor


K (Cathode)
A (Anode)
G (Gate)

PRINTED WIRING BOARD
KU9153 POWER UNIT


KU-9153-1
KU-9153-2
KU-9153-3
KU-9153-4
KU-9153-5
KU-9153-6
KU-9153-7
KU-9153-8
KU-9153-9
BUS BAR
T.P
IC601
IC602
IC501
IC101
IC401
FB501
FB502
RL501
RL701
RL702
P001
BU
BK
RD
GY
LE205
SP-B
LE204
SP-A
LE203
NORMAL
LE202
BALANCE
LE208
PROTECTOR
LE207
PEAK
LE206
STANDBY
SW401
(4P)
PROTECTOR
INPUT
SP-A
SP-B
VR401
INPUT
SW001
INPUT
BALANCE
POWER
LE201
F102
125VAC1.25A
F101
125VAC1.25A
TR520
TR518
TR516
TR514
TR513
TR515
TR517
TR519
CN1
CN2
CN3
CN4
CN5
CN6
CN7
CN8
CN9
CN10
CN11
CN12
CN13
CN14
WT
RD
BK
GND
YW

WIRING DIAGRAM


SPEAKER TERMINAL
CANNON CONNECTOR
KU-9153-7
KU-9153-5
KU-9153-1
KU-9153-6
KU-9154-1
KU-9154-2
(KU-9162)
KU-9153-8
KU-9153-2
KU-9153-4
KU-9153-9
KU-9153-3
ASIA MODEL
(Same as U.S.A. version except the following)
AC CORD
FUSE HOLDER & FUSE F901
VOLTAGE SELECTOR SWITCH
EUROPE, U.K. MODEL
U.S.A. AND CANADA MODEL
POWER TRANSFORMER
POWER TRANSFORMER
PRIMARY
SECONDARY
CN1
CN2
CN3
CN4
CN5
CN6
CN7
CN8
CN9
CN10
CN11
CN12
CN13
CN14
BLK(1)
BLK(2)
RED
WHT
BLK
BLU
YEL
BRN
GRY
ORG
Ⓐ

PRINTED WIRING BOARD PARTS LIST
KU9153 POWER UNIT PARTS LIST

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC101	2620298009	HD14001BP	
IC401	2630466009	NJM2068ADA	
IC501	2620874009	TLP521-1 (BL)	
IC601,602	2620679000	M5238P	
TR101	2730253015	2SC2878 (A/B)	
TR102	2740138007	2SD1944	
TR103~106	2730317003	2SC2458 (BL)	
TR107	2690026007	RN2202 (10k-10k)	
TR108,109	2690076002	2SC4067	
TR110	2710131021	2SA988 (E/F)	
TR111~115	2730317003	2SC2458 (BL)	
TR116~119	2690025008	RN1202 (10k-10k)	
TR451,452	2730317003	2SC2458 (BL)	
TR500,501	2750055002	2SK184C (Y/GR/BL)	
TR502,503	2730281003	2SC2705 (O)/(Y)	
TR504,505	2710175003	2SA1142 (Q)/(P)	
TR506	2730332004	2SC3334	
TR509	2730332004	2SC3334	
TR510	2710201003	2SA1321	
TR511	2730291006	2SC2336A (Q)/(P)	
TR512	2710176002	2SA1006A(Q)/(P)	
TR521	2710131021	2SA988 (E/F)	
TR522	2730332004	2SC3334	
TR523	2710201003	2SA1321	
TR551	2730198002	2SC1815 (Y)	
TR601	2690067008	RN1205 (2.2k-47k)	
TR602	2730235020	2SC1841 (E/F)	
D101,102	2760427015	DSA1A2 (TYPE-3)	
D103,104	2760049011	1S2076A	
D105	2760253001	HZ15-2	
D106~109	2760049011	1S2076A	
D110	2760236031	HZ5C-1	
D111,112	2760049011	1S2076A	
D113	2760254000	HZ7B-3	
D114~119	2760049011	1S2076A	
D123	2760218033	HZ9B-2	
D124	2790016001	SF0R1A42	
D125~127	2760049011	1S2076A	
D501,502	2760253001	HZ15-2	
D505	2760049011	1S2076A	
D508	2760049011	1S2076A	
D509	2760388002	MV-1YH	
D511	2760049011	1S2076A	
D512,513	2760236031	HZ5C-1	
D514~522	2760049011	1S2076A	
D524~526	2760049011	1S2076A	
D601~604	2760049011	1S2076A	
D605,606	2760253001	HZ15-2	
D701,702	2760049011	1S2076A	
LE201	3939364018	SLF-406	
LE202,203	3939364005	SLF-206B (GN)	
LE204,205	3939408026	SEL-4914A	
LE206	3939364018	SLF-406	
LE207	3939408039	SEL-4814A	
LE208	3939408000	SEL-4214S	
P-001	2760289004	PTH487A01BD222TS	
RESISTORS (not included Carbon Film ±5%, ¼W type)			
⚠ **R105**	**2412387908**	**RD14B2E010JNBST**	**1 Ω, ¼W, ±5%**
⚠ **R502**	**2412379987**	**RD14B2E102JNBST**	**1kΩ, ¼W, ±5%**
⚠ **R503**	**2412377947**	**RD14B2E101JNBST**	**100Ω, ¼W, ±5%**
⚠ **R505,506**	**2412380963**	**RD14B2E222JNBST**	**2.2kΩ, ¼W, ±5%**
⚠ **R507**	**2412378917**	**RD14B2E201JNBST**	**200Ω, ¼W, ±5%**
⚠ **R515,516**	**2412378904**	**RD14B2E181JNBST**	**180Ω, ¼W, ±5%**
⚠ **R517,518**	**2412376922**	**RD14B2E330JNBST**	**33Ω, ¼W, ±5%**
⚠ **R519**	**2412379961**	**RD14B2E821JNBST**	**820Ω, ¼W, ±5%**
⚠ **R520**	**2412377947**	**RD14B2E101JNBST**	**100Ω, ¼W, ±5%**
⚠ **R521,522**	**2412387940**	**RD14B2E4R7JNBST**	**4.7Ω, ¼W, ±5%**
⚠ **R523,524**	**2412377947**	**RD14B2E101JNBST**	**100Ω, ¼W, ±5%**
⚠ **R527,528**	**2412387908**	**RD14B2E010JNBST**	**1Ω, ¼W, ±5%**
⚠ **R529,530**	**2440107024**	**RS14B3D562JNBF**	**5.6kΩ, 2W, ±5%**
⚠ **R545~552**	**2412387940**	**RD14B2E4R7JNBST**	**4.7Ω, ¼W, ±5%**
⚠ **R553,554**	**2412379987**	**RD14B2E102JNBST**	**1kΩ, ¼W, ±5%**
⚠ **R555,556**	**2412377947**	**RD14B2E101JNBST**	**100Ω, ¼W, ±5%**
⚠ **R559**	**2412379987**	**RD14B2E102JNBST**	**1kΩ, ¼W, ±5%**
⚠ R560	2412378904	RD14B2E181JNBST	180Ω, ¼W, ±5%
⚠ R564~567	2432033038	RW===3DR18R18	0.18Ωx2, 2W
⚠ R573	2412377947	RD14B2E101JNBST	100Ω, ¼W, ±5%
⚠ R578	2412379987	RD14B2E102JNBST	1kΩ, ¼W, ±5%
⚠ R579	2412387908	RD14B2E010JNBST	1Ω, ¼W, ±5%
⚠ R591,592	2440107024	RS14B3D562JNBF	5.6kΩ, 2W, ±5%
⚠ R593	2412378904	RD14B2E181JNBST	180Ω, ¼W, ±5%
⚠ **R594**	**2412379987**	**RD14B2E102JNBST**	**1kΩ, ¼W, ±5%**
⚠ **R611~614**	**2440107024**	**RS14B3D562JNBF**	**5.6kΩ, 2W, ±5%**
VR401	2119053001	V16V35FB503	50kΩ
VR501	2116064006	V06PB103	10kΩ, Semi-fixed resistor
VR502	2116064019	V06PB473	47kΩ, semi-fixed resistor
CAPACITORS GROUP			
⚠ **C009**	**2538003014**	**CK45E2GAC472M**	**0.0047μF/400 V AC**
C101	2554079048	CQ93P2A103J	0.01μF/100V
C102	2544258099	CE04W1V102M (SME)	1000μF/35V
C103	2544260032	CE04W1HR47M (SME)	0.47μF/50V
C104	2544258057	CE04W1V101M (SME)	100μF/35V
C105	2544260045	CE04W1H010M (SME)	1μF/50V
C106	2561035004	CF93A1H184J	0.18μF/50V
C107	2544254022	CE04W1C330M (SME)	33μF/16V
C108	2544250039	CE04W0J221M (SME)	220μF/6.3V
C110	2544250026	CE04W0J101M (SME)	100μF/6.3V
C111	2544254006	CE04W1C100M (SME)	10μF/16V
C112	2544260016	CE04W1HR22M (SME)	0.22μF/50V
C113	2544258044	CE04W1V470M (SME)	47μF/35V
C120	2544193002	CE04W1C100M (SRA)	10μF/16V
C301,302	2544195929	CE04W1V100M (SRA)	10μF/35V
C303,304	2531181917	CK45F1H223Z (DD-3)	0.022μF/50V
C402	2554229908	CQ92P2A101J	100pF/100V
C403,404	2544260087	CE04W1H100M (SME)	10μF/50V
C501	2544306925	CE04W1H100M (SRE)	10μF/50V
C502	2554229940	CQ92P2A221J	220pF/100V
C503	2554229908	CQ92P2A101J	100pF/100V
C504	2521085926	CM92C2A680J	68pF/100V
C505	2554213972	CQ93M1H103J (B)	0.01μF/50V
C506	2521086912	CM92C2A050D	5pF/100V
C507	2543056959	CE04D1H100MBP (SME)	10μF/50V
C508	2544306925	CE04W1H100M (SRE)	10μF/50V
C509	2521086938	CM92C2A100D	10pF/100V
C510	2554229908	CQ92P2A101J	100pF/100V
C511	2521086938	CM92C2A100D	10pF/100V
C513	2551249907	CQ93M1H471J (B)	470pF/50V
C516,517	2543046008	CE04D2A010MBP	1μF/100V
C523	2544260045	CE04W1H010M (SME)	1μF/50V
C524	2544263097	CE04W2A220M (SME)	22μF/100V
C530,531	2554229908	CQ92P2A101J	100pF/100V
C532,533	2521085971	CM92C2A330J	33pF/100V
C534,535	2551249907	CQ93M1H471J (B)	470pF/50V
C540,541	2554213972	CQ93M1H103J (B)	0.01μF/50V
C542	2554228967	CQ92P2A103J	0.01μF/100V
C543,544	2543046930	CE04D2A100MBP	10μF/100V
C545,546	2531052004	CK45E2H472P	4700pF/500V
C547	2544260087	CE04W1H100M (SME)	10μF/50V
C591	2544195929	CE04W1V100M (SRA)	10μF/35V
C601,602	2544306925	CE04W1H100M (SRE)	10μF/50V
C603	2554213972	CQ93M1H103J (B)	0.01μF/50V
C604	2544254006	CE04W1C100M (SME)	10μF/16V
C701	2554228996	CQ92P2A223J	0.022μF/100V
SWITCHS & COILS & RELAYS GROUPS			
L701,702	2359001004	INDUCTOR	
⚠ **SW001**	**2129534002**	**POWER SW (PUSH)**	**TV-8**
SW401	2129554011	4P PUSH SWITCH	
FB501,502	2359006009	BL02RN1-R62	
RL501	2149005100	RELAY (BSR-H-12S)	DRIVER VCC
R701,702	2149003005	RELAY	
OTHER PARTS GROUP			**Q'ty**
	4170253000	RADIATOR	2
	4700012022	CROSS PAN SCREW with SW, W 3 x 12	2
	4756008006	φ4 NUT	1
	2048248000	1P CONNECTOR BASE	1
	2048101008	2P POWER JACK	1
⚠ **F101,102**	**2061015016**	**FUSE (1.25A)**	**2**
	2020022008	FUSE HOLDER	4
	5139181002	FUSE LABEL (T1.25A)	2
	2050190036	3P NH CONNECTOR BASE	2
	2050233032	3P EH CONNECTOR BASE	1
	2050234031	3P EH SID CONNECTOR BASE	3

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

Ref. No.	Part No.	Part Name	Remarks
	2050190049	4P NH CONNECTOR BASE	2
	2050233045	4P EH CONNECTOR BASE	1
	2050234044	4P EH SID CONNECTOR BASE	1
	2050190052	5P NH CONNECTOR BASE	2
	2050233058	5P EH CONNECTOR BASE	1
	2050234060	6P CONNECTOR BASE	1
	2050243022	2P WIRE HOLDER	1
	2050243035	3P WIRE HOLDER	1
	2050185041	4P WIRE HOLDER	1
	2050243051	5P WIRE HOLDER	1
	2050185054	5P WIRE HOLDER	2
	2050243064	6P WIRE HOLDER	2
	2050075067	6P WRAPPING TERMINAL	1
	2050141001	COMMON PLATE	1
	2030241086	1P CONTACT ASS'Y	2
	2030241028	1P CONTACT ASS'Y	1
	2030226056	1P CONTACT ASS'Y	1
	4450057010	CORD CLIP	4
	2038190003	5P CONNECTOR CORD	1
	2038191002	5P CONNECTOR CORD	1
	2034542008	3P CONNECTOR CORD	1
	2038192001	5P CONNECTOR CORD	1
	2040196008	6P CONNECTOR CORD	1
	2034429008	3P CONNECTOR CORD	1
	2036204001	4P CONNECTOR CORD	1
	2030330049	CONNECTING CORD ASS'Y	1
	2030330052	CONNECTING CORD ASS'Y	1

KU9153N FOR U.S.A. AND CANADA

[Same as KU9153 (for EUROPE) except the followings]

Ref. No.	Part No.	Part Name	Remarks
RESISTORS GROUP			
R524	2442051961	RS14B3A101JST (S) CHANGE	100Ω, 1W
RELAY			
RL501	2149013008	RELAY (BSR-H-12S UL) CHANGE	
OTHER PARTS			
F101,102	2061039047	FUSE 1.25A CHANGE	
	5139181002	FUSE LABEL (T1.25A) (2) DELETE	For F101,102

KU9153D FOR ASIA

[Same as KU9153 (for EUROPE) except the followings]

Ref. No.	Part No.	Part Name	Remarks
RESISTORS GROUP			
R524	2442051961	RS14B3A101JST (S) CHANGE	100Ω, 1W
RELAY			
RL501	2149013008	RELAY (BSR-H-12S UL) CHANGE	
OTHER PARTS			
	2020022008	FUSE HOLDER (2) TWE PIECES DELETE	
F101,102	2061035025	FUSE 1.25A (T) CHANGE	
	5139181002	FUSE LABEL (T1.25A) (2) DELETE	

KU9154 P.S. UNIT PARTS LIST

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
D001 002	2760433009	DSM1A2	
D003	2760424005	4D4B42 (LC1)	
D004~ D009	2760433009	DSM1A2	
RESISTORS GROUP			
R001 002	2090051902	0 Ohm JUMPER TAPE	
R003	2432044027	RW78A4A4R7K=	4.7Ω, 10W ±10%
CAPACITORS GROUP			
⚠ C001	2561043711	CF93B2E474K	0.47μF/250V ±10%
C003 004	2544229002	CE04W2A471M	470μF/100V ±20%
RELAY			
RL001	2140115002	RELAY (TV-5)	
OTHER PARTS GROUP			**Q'ty**
⚠ F001 002	2061036011	FUSE (6.3A)	2
⚠ F003 004	2061015090	FUSE (5A)	2
⚠ F005	2061036011	FUSE (6.3A)	1
	2020022008	FUSE HOLDER	10
	2050190049	4P NH CONNECTOR BASE	1
	2050190036	3P NH CONNECTOR BASE	1
	2050075038	3P TERMINAL	1
	2050149032	5P WRAPPING TERMINAL	1

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

KU9162 FOR U.S.A. AND CANADA

[Same as KU9154 (for EUROPE) except the followings]

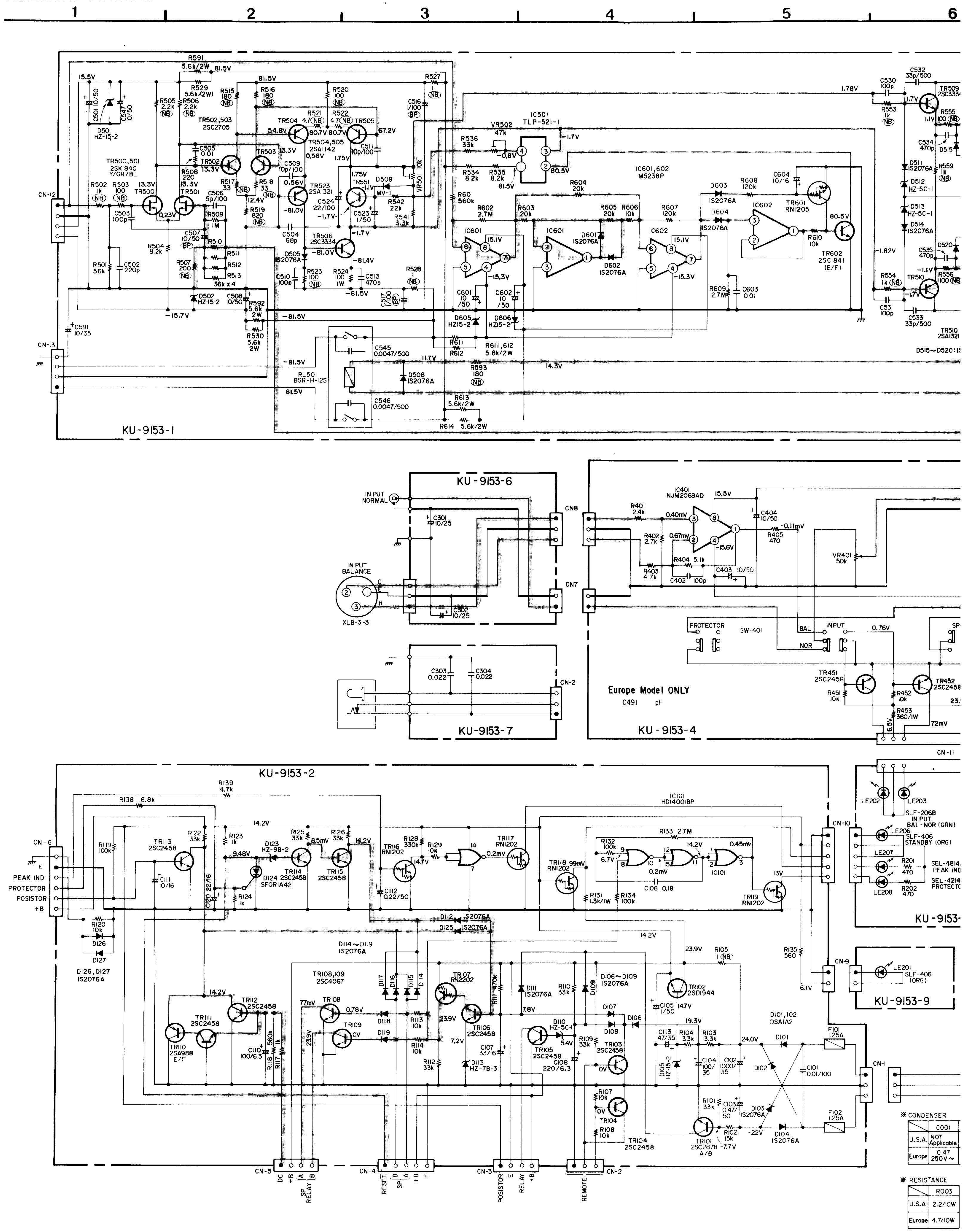
Ref. No.	Part No.	Part Name	Remarks
RESISTORS GROUP			
R003	2432079005	RW78A4A2R2K= (UL) CHANGE	2.2Ω, 10W
CAPACITORS GROUP			
⚠ C001	2561043711	CF93B2E474K DELETE	0.47μF/250V ±10%
OTHER PARTS GROUP			
F001,002	2061046043	FUSE (10A) CHANGE	UL & CSA
F003,004	2061046027	FUSE 5A CHANGE	UL & CSA
F005	2061046043	FUSE (10A) CHANGE	UL & CSA
R003	2432044014	RW78A4A2R2K= CHANGE	2.2 ohm, 10W Canada only

KU9162D FOR ASIA

[Same as KU9154 (for EUROPE) except the followings]

Ref. No.	Part No.	Part Name	Remarks
RESISTORS GROUP			
R003	2432044014	RW78A4A2R2K= CHANGE	2.2Ω, 10W
CAPACITORS GROUP			
⚠ C001	2561043711	CF93B2E474K DELETE	0.47μF/250V ±10%
OTHER PARTS GROUP			
F001,002	2061035096	FUSE 10.0A CHANGE	
F003,004	2061035012	FUSE 5A (T) CHANGE	
F005	2061017043	FUSE 12A CHANGE	AC LINE
	5130886018	FUSE LABEL (T12A) ADD	FOR F005

SCHEMATIC DIAGRAM



1
2
3
4
5
6
KU-9153-1
CN-12
CN-13
R591 5.6k/2W
81.5V
15.5V
C501 10/50
C547 10/50
D501 HZ-15-2
R505 2.2k (NB)
R506 2.2k (NB)
R529 5.6k/(2W)
R515 180 (NB)
R516 180 (NB)
R520 100 (NB)
R527 1 (NB)
C516 1/100 (BP)
TR502,503 2SC2705
TR500,501 2SK184C Y/GR/BL
TR500
TR501
TR502
TR503
TR504
TR505
TR504,505 2SA1142
R521 4.7 (NB)
R522 4.7 (NB)
54.8V
80.7V
67.2V
13.3V
0.56V
1.75V
C505 0.01
C511 10p/100
C509 10p/100
R508 220
R502 1k (NB)
R503 100 (NB)
C503 100p
0.23V
C506 5p/100
R517 33 (NB)
R518 33 (NB)
12.4V
R519 820 (NB)
R509 1M
C507 10/50 (BP)
R510
R511
R512
R513
36k x 4
R504 8.2k
R501 56k
C502 220p
R507 200 (NB)
C504 68p
TR523 2SA1321
TR551
1.75V
-1.1V
D509 MV-1
C524 22/100
-1.7V
C523 1/50
R542 22k
R541 3.3k
VR501 10k
-81.0V
TR506 2SC3334
D505 1S2076A
-81.0V
-81.4V
C510 100p
R523 100 (NB)
R524 100 1W
C513 470p
-81.5V
R528 (NB)
C517 1/100 (BP)
D502 HZ-15-2
C508 10/50
R592 5.6k 2W
-15.7V
-81.5V
C591 10/35
R530 5.6k 2W
C545 0.0047/500
11.7V
RL501 BSR-H-12S
D508 1S2076A
C546 0.0047/500
R611
R612
R611,612 5.6k/2W
R593 180 (NB)
14.3V
R613 5.6k/2W
R614 5.6k/2W
IC501 TLP-521-1
VR502 47k
R536 33k
-0.8V
-1.7V
80.5V
81.5V
R534 8.2k
R535 8.2k
R601 560k
R602 2.7M
R603 20k
R604 20k
IC601,602 M5238P
IC601
IC602
15.1V
-15.3V
C601 10 /50
C602 10 /50
D605 HZ15-2
D606 HZ15-2
D601 1S2076A
D602 1S2076A
R605 20k
R606 10k
R607 120k
D603 1S2076A
D604 1S2076A
R608 120k
C604 10/16
TR601 RN1205
R610 10k
TR602 2SC1841 (E/F)
R609 2.7M
C603 0.01
1.78V
C530 100p
C532 33p/500
TR509 2SC333
R553 1k (NB)
1.7V
R555 100 (NB)
1.1V
C534 470p
D515
D511 1S2076A
R559 1k (NB)
D512 HZ-5C-1
D513 HZ-5C-1
D514 1S2076A
-1.82V
C535 470p
D520
R554 1k (NB)
TR510
-1.1V
R556 100 (NB)
-1.7V
C531 100p
C533 33p/500
TR510 2SA1321
D515~D520:1S
KU-9153-6
IN PUT NORMAL
C301 10/25
IN PUT BALANCE
XLB-3-31
C302 10/25
CN8
CN7
KU-9153-7
C303 0.022
C304 0.022
CN-2
IC401 NJM2068AD
15.5V
R401 2.4k
0.40mV
0.67mV
R402 2.7k
R403 4.7k
R404 5.1k
C402 100p
C403 10/50
-15.6V
C404 10/50
-0.11mV
R405 470
VR401 50k
PROTECTOR
SW-401
BAL
INPUT
NOR
0.76V
TR451 2SC2458
TR452 2SC2458
R451 10k
R452 10k
R453 360/1W
6.5V
72mV
Europe Model ONLY
C491 pF
KU-9153-4
CN-11
LE202
LE203
SLF-206B IN PUT BAL-NOR (GRN)
LE206
SLF-406 STANDBY (ORG)
LE207
R201 470
SEL-4814 PEAK IND
LE208
R202 470
SEL-4214 PROTECTOR
KU-9153-
CN-10
CN-9
LE201
SLF-406 (ORG)
KU-9153-9
KU-9153-2
CN-6
E
PEAK IND
PROTECTOR
POSISTOR
+B
R138 6.8k
R139 4.7k
14.2V
R119 100k
TR113 2SC2458
R122 33k
R123 1k
9.48V
D123 HZ-9B-2
D124 SFOR1A42
R125 33k
8.5mV
R126 33k
TR114 2SC2458
TR115 2SC2458
C111 10/16
C120 22/16
R124 1k
R128 330k
R129 10k
TR116 RN1202
14.7V
C112 0.22/50
TR117 RN1202
0.2mV
IC101 HD14001BP
R133 2.7M
R132 100k
6.7V
TR118 RN1202
99mV
0.2mV
C106 0.18
IC101
0.45mV
13V
TR119 RN1202
R131 1.3k/1W
R134 100k
R120 10k
D126
D127
D126,D127 1S2076A
D112 1S2076A
D125 1S2076A
D114~D119 1S2076A
TR108,109 2SC4067
D117
D116
D115
D114
TR107 RN2202
R111 470k
D111 1S2076A
R110 33k
D109
D106~D109 1S2076A
23.9V
R105 1 (NB)
R135 560
TR102 2SD1944
6.1V
14.2V
TR112 2SC2458
TR111 2SC2458
TR110 2SA988 E/F
C110 100/6.3
R118 560k
R117 1k
77mV
TR108
0.78V
TR109
0V
D118
D119
R113 10k
R114 10k
R112 33k
23.9V
7.2V
TR106 2SC2458
C107 33/16
D113 HZ-7B-3
7.8V
D110 HZ-5C-1
5.4V
TR105 2SC2458
C108 220/6.3
R109 33k
D107
D108
D106
TR103 2SC2458
0V
C105 1/50
14.7V
19.3V
C113 47/35
R104 3.3k
R103 3.3k
D105 HZ-15-2
C104 100/35
C102 1000/35
24.0V
D101,102 DSA1A2
D101
D102
C101 0.01/100
F101 1.25A
F102 1.25A
CN-1
R107 10k
TR104
R108 10k
TR104 2SC2458
R101 33k
C103 0.47/50
D103 1S2076A
D104 1S2076A
TR101 2SC2878 A/B
R102 15k
-7.7V
-22V
CN-5
DC
+B
A
B
SP RELAY
CN-4
RESET
SP
CN-3
POSISTOR
E
RELAY
CN-2
REMOTE

※ CONDENSER

	C001
U.S.A.	NOT Applicable
Europe	0.47 250V ~

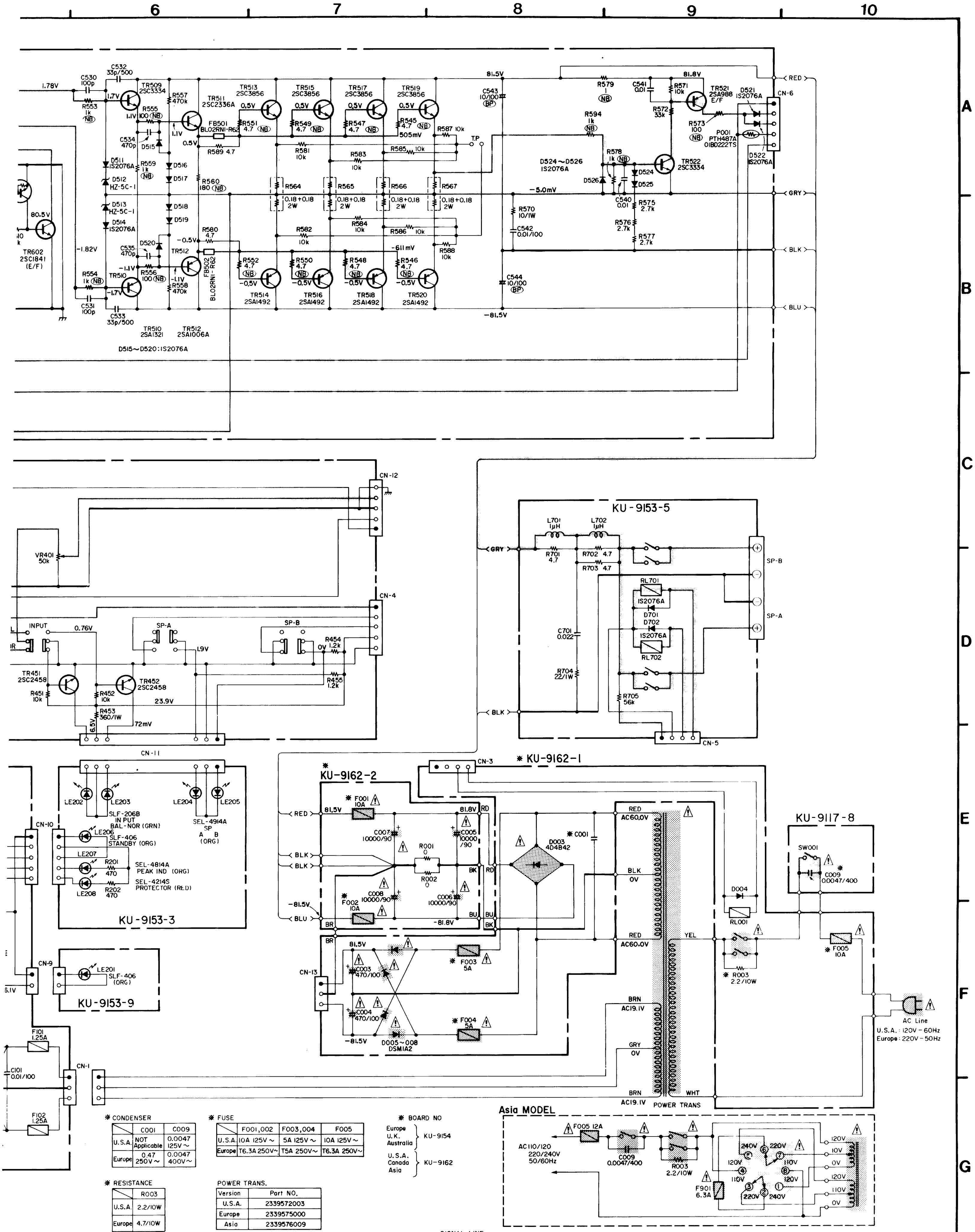
※ RESISTANCE

	R003
U.S.A.	2.2/10W
Europe	4.7/10W

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristic
Use ONLY replacement parts recommended by the manufacturer.

CAUTION:
Before returning the unit to the customer, make sure you ma
check. If the leakage current exceeds 0.5 milliamps, or if the re
ohms, the unit is defective.

WARNING:
DO NOT return the unit to the customer until the problem is loca


6
7
8
9
10
A
B
C
D
E
F
G
H
C532 33p/500
C530 100p
1.78V
TR509 2SC3334
R553 1k
R555 1k
R557 470k
TR511 2SC2336A
TR513 2SC3856
TR515 2SC3856
TR517 2SC3856
TR519 2SC3856
FB501 BL02RNI-R62
R551 4.7
R549 4.7
R547 4.7
R545 4.7
505mV
R587 10k
R589 4.7
R581 10k
R583 10k
R585 10k
TP
C543 10/100
81.5V
R579 1
C541 0.01
81.8V
R571 10k
TR521 2SA988 E/F
D521 1S2076A
CN-6
R572 33k
R573 100
P001 PTH487A 01B0222TS
R594 1k
R578 1k
D524~D526 1S2076A
TR522 2SC3334
D522 1S2076A
D524
D525
D526
C534 470p
D515
D511 1S2076A
R559 1k
D516
D517
D512 HZ-5C-1
D513 HZ-5C-1
D514 1S2076A
D518
D519
R560 180
R564
R565
R566
R567
0.18+0.18 2W
-5.0mV
C540 0.01
R575 2.7k
R576 2.7k
R577 2.7k
R570 10/1W
C542 0.01/100
R580 4.7
R582 10k
R584 10k
R586 10k
R588 10k
-611mV
C535 470p
D520
TR512
R554 1k
TR510
R556 100
R558 470k
FB502 BL02RNI-R62
R552 4.7
R550 4.7
R548 4.7
R546 4.7
TR514 2SA1492
TR516 2SA1492
TR518 2SA1492
TR520 2SA1492
C544 10/100
-81.5V
C531 100p
C533 33p/500
TR510 2SA1321
TR512 2SA1006A
D515~D520:1S2076A
RED
GRY
BLK
BLU
80.5V
TR602 2SC1841 (E/F)
CN-12
VR401 50k
KU-9153-5
L701 1μH
L702 1μH
R701 4.7
R702 4.7
R703 4.7
SP-B
SP-A
RL701
1S2076A
D701
D702
RL702
C701 0.022
R704 22/1W
R705 56k
CN-5
CN-4
INPUT
0.76V
SP-A
SP-B
1.9V
R454 1.2k
R455 1.2k
TR451 2SC2458
TR452 2SC2458
R451 10k
R452 10k
R453 360/1W
23.9V
6.5V
72mV
CN-11
CN-3
✱ KU-9162-1
✱ KU-9162-2
✱ F001 10A
81.8V
C007 10000/90
R001 0
C005 10000/90
R002 0
C006 10000/90
C008 10000/90
F002 10A
-81.8V
D003 4D4B42
✱ C001
AC60.0V
AC60.0V
AC19.1V
AC19.1V
YEL
WHT
POWER TRANS
KU-9117-8
SW001
✱ C009 0.0047/400
D004
RL001
✱ F005 10A
✱ R003 2.2/10W
AC Line
U.S.A.: 120V - 60Hz
Europe: 220V - 50Hz
LE202
LE203
LE204
LE205
SLF-206B INPUT BAL-NOR (GRN)
SEL-4914A SP A B (ORG)
CN-10
LE206
SLF-406 STANDBY (ORG)
LE207
R201 470
SEL-4814A PEAK IND (ORG)
R202 470
SEL-4214S PROTECTOR (RED)
LE208
KU-9153-3
CN-13
✱ F003 5A
C003 470/100
C004 470/100
✱ F004 5A
D005~008 DSM1A2
CN-9
LE201 SLF-406 (ORG)
KU-9153-9
F101 1.25A
C101 0.01/100
CN-1
F102 1.25A
Asia MODEL
F005 12A
AC110/120
220/240V
50/60Hz
C009 0.0047/400
R003 2.2/10W
F901 6.3A
240V
220V
120V
110V
120V
10V
0V
120V
110V
0V

✱ CONDENSER

	C001	C009
U.S.A.	NOT Applicable	0.0047 125V ~
Europe	0.47 250V ~	0.0047 400V ~

✱ FUSE

	F001,002	F003,004	F005
U.S.A.	10A 125V ~	5A 125V ~	10A 125V ~
Europe	T6.3A 250V~	T5A 250V~	T6.3A 250V~

✱ BOARD NO

Europe U.K. Australia	KU-9154
U.S.A. Canada Asia	KU-9162

✱ RESISTANCE

	R003
U.S.A.	2.2/10W
Europe	4.7/10W

POWER TRANS.

Version	Part NO.
U.S.A.	2339572003
Europe	2339575000
Asia	2339576009

SIGNAL LINE
BIAS CONTROL LINE
MUTING LINE

ɔol ⚠ ▨ have critical characteristics.
ts recommended by the manufacturer.

to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance
nt exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 240 k

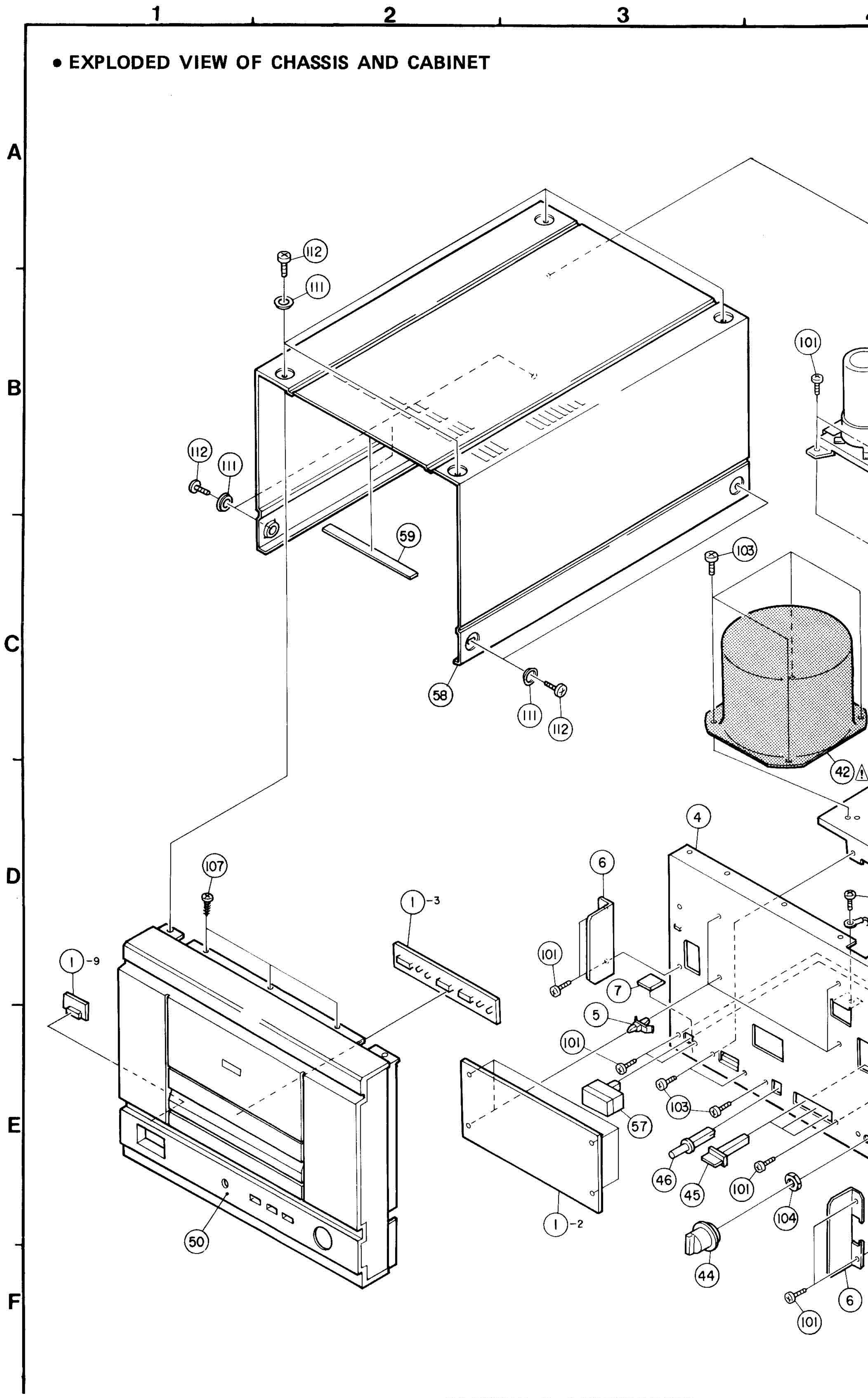
ı the customer until the problem is located and corrected.

NOTES
ALL RESISTANCE VALUES IN OHM k = 1,000 OHM M = 1,000,000 OHM
ALL CAPACITANCE VALUES IN MICRO FARAD P = MICRO-MICRO FARAD
EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.
CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

EXPLODED VIEW OF CHASSIS AND CABINET & PARTS LIST

• PARTS LIST OF EXPLODED VIEW

Ref. No.	Part No.	Part Name	Remarks
⊙ *1	KU9153	POWER UNIT	1
⊙ *2	KU9154	P.S. UNIT	1
3	2546142006	CE68W==103M==103M 10,000μF	2 C005 ~ 008
⊙ 4	4119051205	FRONT CHASSIS	1
⊙ 5	4159016019	P.C.B HOLDER	8
⊙ 6	4129132101	BRACKET	2
7	4150210005	INSULATING SHEET	1
⊙ ★8	2034433007	3P CONNECTOR CORD	1 L=600,CN-2
⊙ ★9	2036202003	4P CONNECTOR CORD	1 L=500,CN-3
⊙ ★10	2036203002	4P CONNECTOR CORD	1 L=600,CN-5
⊙ 11	4119052505	TRANS. CHASSIS	1
*12	2050273005	4P TERMINAL	1
⊙ 14	4129059019	BRACKET	2
*15	4159014105	PROTECTOR SHEET	1
⊙ ★16	2034430000	3P CONNECTOR CORD	1
⊙ ★17	2034432008	3P CONNECTOR CORD	1
⊙ ★18	0099003005	TWIST WIRE	1
⊙ ★19	2090232064	V. WIRE (UL1015)	1 AWG18
*★20	5139172008	BLIND SHEET	1
⊙ *★21	2090206003	D.I. WIRE	2
* 22	1059129009	BACK PANEL	1
⊙ * 23	4159045006	PS COVER	1
24			
⊙ 25	4129138406	BRACKET (SP)	1
⊙ ★26	2090232022	V. WIRE (UL1015) AWG18	1 BK-100 SP-TER.
⊙ ★27	2090232035	V. WIRE (UL1015) AWG18	1 BK-120 SP-TER.
⊙ ★28	2090232048	V. WIRE (UL1015) AWG18	1 RD-130 SP-TER.
⊙ ★29	2090232051	V. WIRE (UL1015) AWG18	1 WT-170 SP-TER.
30	2050416008	3P CANNON CONNECTOR	1
⚠ * 31	**2062063009**	**AC CORD WITH PLUG**	**1**
⚠ * 32	**4450020005**	**CORD BUSH (4k-4)**	**1**
⊙ 33	4179032400	POWER RADIATOR	1
34	2710221009	2SA1492LB O/P/Y	4 (TR514,516 518,520)
35	2730355007	2SC3856 LB O/P/Y	4 (TR513,515 517,519)
36	4150234007	INSULATING SHEET	8
⊙ 37	4129137106	PWB SUPPORT BRACKET	1
⊙ 38	4159033005	P.C.B HOLDER (R)	2
⊙ 39	4129130103	RADIATOR BRACKET (F)	1
⊙ 40	4129131102	RADIATOR BRACKET (B)	1
41	4450048003	CORD HOLDER (L76)	3
⚠ * 42	**2339575000**	**POWER TRANS.**	**1**
★43	4450033005	WIRE CLAMP BAND	10
44	1129041101	KNOB (LEVEL VR)	1
45	1139151007	PUSH KNOB	3
46	1139087100	PUSH KNOB (PROTECTOR)	1
50	GEN7034	FRONT PANEL SUB ASS'Y	1
⊙ 51	4159016051	PCB HOLDER	4
⊙ 52	4129149000	BRACKET	1
57	1139152006	PUSH KNOB (P) ASS'Y	1
58	1029024215	TOP COVER	1
59	1229006017	SPACER	2
60			
61			
⊙ * 62	4179033108	RADIATOR	2
★67	2090271038	TWIST WIRE	1
68			
69	1059130001	BOTTOM COVER	1
70	1049012207	FOOT ASS'Y	4
71	2129534002	POWER SWITCH	1 SW401
72	2129554011	4P PUSH SWITCH	1 PROTECTOR, INPUT SELECTOR, SPEAKERS
73	2119053001	V16V35FB503	1 VR401 INPUT LEVEL
74	2048248000	1P CONNECTOR BASE	1 INPUT (NOR)
75	2048101008	2P POWER JACK	1 REMOTE
76	2061036011	FUSE (6.3A)	F001,002



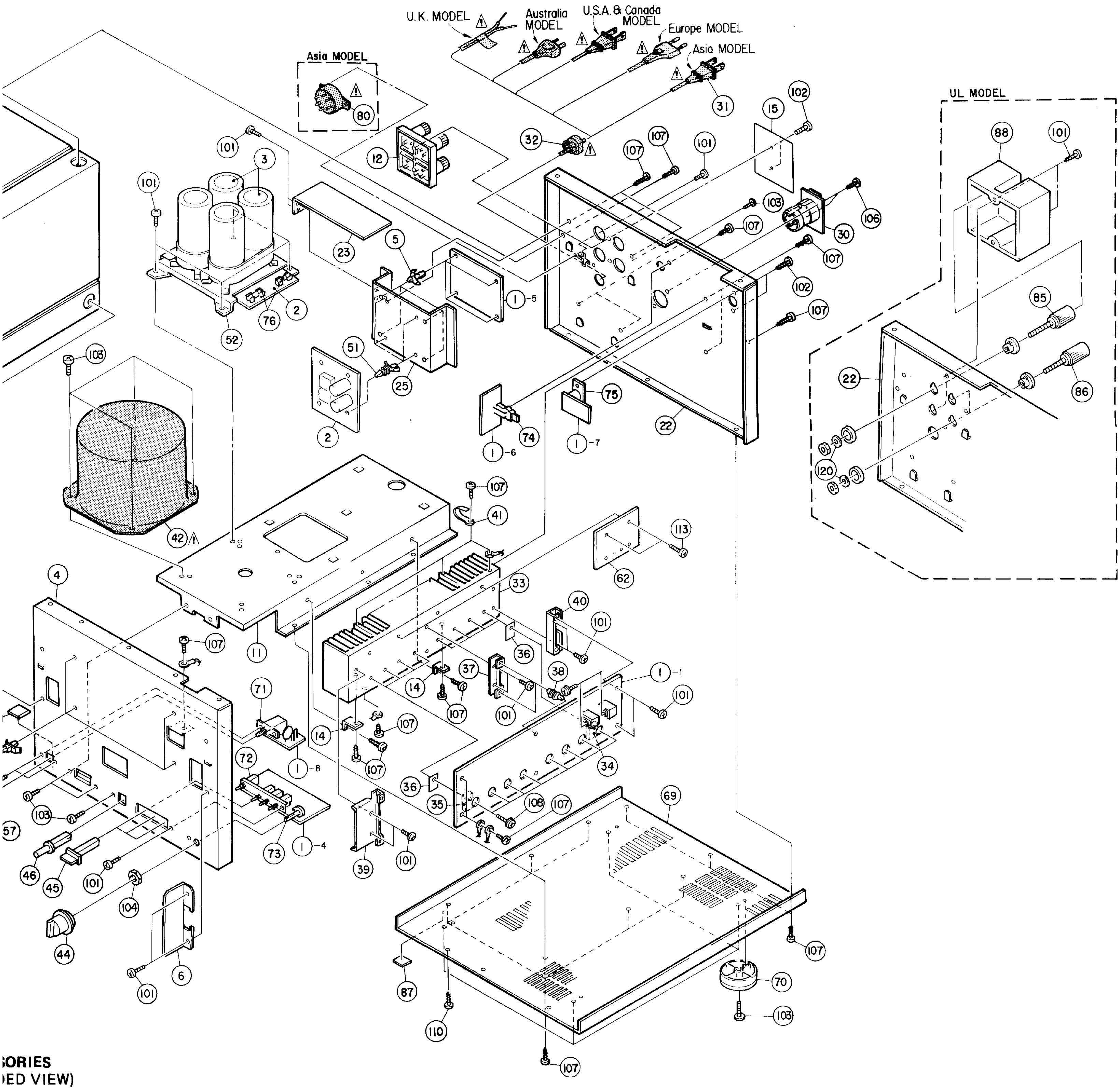
• EXPLODED VIEW OF CHASSIS AND CABINET

Ref. No.	Part No.	Part Name	Remarks
		SCREWS & NUTS	
*101	4737002034	TAPTIGHT SCREW (S) 3x6 BLACK	21
*102	4737500044	TAPTIGHT SCREW (P) 3x8 BLACK	4
103	4737007000	TAPTIGHT SCREW (S) 4x8 BLACK	12
104	–	NUT M7	1
105			
106	4737012008	TAPPING SCREW (S) 3x10	2
*107	4770064107	FIXING SCREW	40
108	4738007038	CUP SCREW 3x14	8
110	4737003017	TAPTIGHT SCREW (S) 3x8 BLACK	1
111	1469116000	SCREW CUP	8
112	4737007013	TAPTIGHT SCREW (S) 4x10 BLACK	8
*113	4738007025	CPU SCREW 3x8	4

PACKING & ACCESSORIES
(not included EXPLODED VIEW)

Ref. No.	Part No.	Part Name	Remarks
201	5049102003	STYLEN PAPER	1
202	5050075051	CABINET COVER	1
203	5039150007	CUSHION	2
*204	5019157059	CARTON CASE	1
205	5058006019	ENVELOPE	1
206	5119250005	INST MANUAL	1
207	2034442001	REMOTE PLUG CORD	1
*208	2034451005	3P CANNON PLUG CORD	1

WARNING:
Parts marked with this symbol ⚠ ▨ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.


U.K. MODEL
Australia MODEL
U.S.A.& Canada MODEL
Europe MODEL
Asia MODEL
Asia MODEL
UL MODEL
80
31
32
102
15
12
101
3
107
107
101
88
101
101
103
106
30
107
23
5
1-5
102
107
85
22
52
76
2
51
25
86
103
2
74
1-6
75
1-7
22
120
107
41
42
113
62
4
33
40
101
11
107
36
1-1
71
14
37
38
101
107
101
14
107
107
34
72
1-8
36
35
108
107
69
57
103
73
1-4
46
45
101
104
39
101
44
6
101
87
107
70
110
103
107

ORIES
ED VIEW)

Part Name	Remarks
TYLEN PAPER	1
ABINET COVER	1
USHION	2
ARTON CASE	1
NVELOPE	1
NST MANUAL	1
EMOTE PLUG CORD	1
P CANNON PLUG ORD	1

NOTE FOR PARTS LIST

- Part indicated with the mark "◎" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.